

Marine & Offshore Products

Aste® Complete Product Catalog

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Aste® is one of the
Foremost and Leading global suppliers of
marine and offshore products

We take pride in providing our customers with efficient services
as well as a cost-effective range of products.





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METAL-TEK® Products

Repair and Maintenance Applications



Our Product Range

Here at Aste®, we offer a wide range of premium products for the maritime and offshore industries;

We categorize our products into three categories:

CVS® Products

Industrial and Mechanical Applications



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General Deck Products

Maritime Sector Applications



Embarkation & Pilot Ladders

Emergency Oil Spill Kits

FRP Grating

Hatch Cover Tape

Personnel Transfer Basket

Razor Wire

Rope Protector Sleeve

and many more

Emergency Repair Kits

Epoxy Putty

General Purpose Glue

Leak Detector Spray

Pipe Protection Coatings

Refractory Dense Castable

Solid Lubricants

Threadlockers

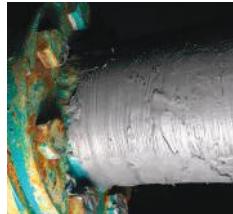
Downloadable Product Data Sheets



The products featured in this catalog come with an attached QR code.

To acquire additional information about a product, simply scan the QR code to access and download its corresponding Technical Data Sheet or Material Safety Data Sheet.

See the next page for product content

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CVS® Products



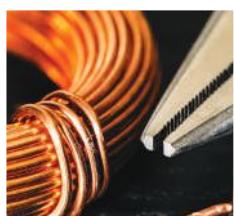
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Metal Tek®

Metal-Tek® offers the Best Solutions for leak repair, rebuild, reinforcing, as well as corrosion protection and maintenance.

Our products eliminate or minimize plant and equipment downtime, and are widely used in marine and offshore applications.



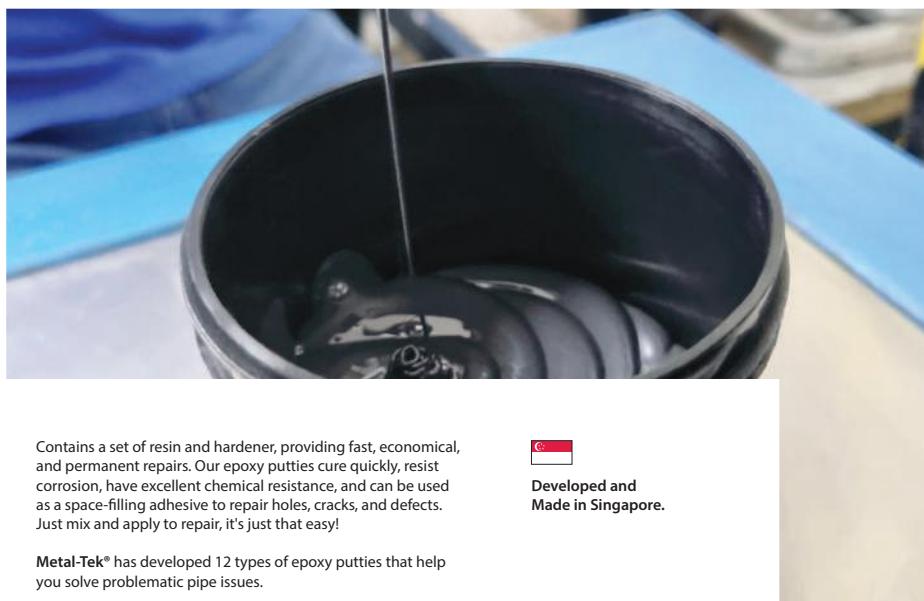
METAL-TEK®

Resin Based Products & Repair Kits

- Epoxy Putty
- Resin & Activator
- Emergency Repair Kits & Tapes

For repair, rebuild, and reinforcing of damaged pipelines and machine parts quick and effectively.

Metal-Tek® offers a range of resin based products designed specifically for your repair, rebuild, and maintenance needs, as well as a variety of fast curing, easy-to-use pipe repair products suited for emergency repair purposes.



Epoxy Putty A cost-effective repair solution, mix and apply

Contains a set of resin and hardener, providing fast, economical, and permanent repairs. Our epoxy putties cure quickly, resist corrosion, have excellent chemical resistance, and can be used as a space-filling adhesive to repair holes, cracks, and defects. Just mix and apply to repair, it's just that easy!



Developed and
Made in Singapore.

Metal-Tek® has developed 12 types of epoxy putties that help you solve problematic pipe issues.



Aluminium Putty (F)

Metal-Tek® Aluminium-filled Putty (F) is widely used in HVAC applications, it provides dependable non-rusting repairs to aluminium castings, machinery, and equipment.

Application: For rebuilding aluminium casting parts, repairing aluminium casting air holes and sand holes, shrinkage and cracks, and filling oversize, scratched, or damaged areas. It is also applicable to general machines, automobiles, planes, and boats.

Product Features:

- Aluminium-filled two-components epoxy putty
- Repairs non-rusting aluminium castings, machinery, and equipment
- Excellent resistance to chlofluorocarbons
- Bonds to aluminium and other metals
- Fills porosity in aluminium castings
- Can be drilled, tapped, machined, or painted



Bronze Putty (BR)

Metal-Tek® Bronze-filled Putty (BR) is specially developed for repairing, rebuilding and maintaining bronze parts and equipment.

Application: For rebuilding bronze casting parts, repairing bronze casting air holes and sand holes, shrinkage and cracks, and filling oversize, scratched, or damaged areas. It is also applicable to general machines, automobiles, planes, and boats.

Product Features:

- Bronze-filled two-components epoxy putty
- Repairs to bronze and brass bushings, shafts, casting and parts
- Ideal for patching and repairing areas where welding or brazing is undesirable
- Bonds securely to bronze alloys, brass, copper, and ferrous metals



Stainless Steel Putty (ST)

Metal-Tek® Stainless Steel Putty (ST) is a steel-filled, room temperature cured epoxy that is ideal for patching, repairing and rebuilding stainless steel.

Application: For repairing stainless steel and steel defects and rebuilding worn parts. It is also applicable to watercrafts, machines, automobiles and mining.

Product Features:

- Metal-filled two-components epoxy putty
- Bonds to ferrous and non-ferrous
- Non-rusting
- Cures at room temperature
- Excellent resistance to oil, gasoline, water, and chemicals
- Ideal for patching and repairing areas where welding or brazing is undesirable
- Can be drilled, tapped, machined, or painted





Two Components,
Mix and Apply

Plastic Steel Putty (A)

Metal-Tek® Plastic Steel Putty (A) is a steel-filled epoxy that cures at room temperature.

Application: For repairing defects and building steel/iron casting parts, and repairing worn components such as bearings and fan housings.

Product Features:

- Steel-filled two-components putty
- Bonds to metals, concrete, and plastics
- Cures at room temperature
- Excellent resistance to oil, gasoline, water, and chemicals
- Ideal for patching and repairing areas where welding/brazing is undesirable
- Can be drilled, tapped, machined, or painted



Two Components,
Mix and Apply

Plastic Steel Liquid (B)

Metal-Tek® Plastic Steel Liquid (B) is a steel-filled liquid designed for maintaining and repairing tooling, molding, and leveling equipment.

Application: Ideal for holding fixtures for intricate parts, filling and levelling equipment, repairing hard-to-reach areas, duplicating or tracing masters, as well as short run dies and molds.

Product Features:

- Hardens in about an hour
- High compressive strength
- Machinable to close tolerance
- Low viscosity makes it an ideal levelling compound for machineries and equipments



Two Components,
Mix and Apply



Two Components,
Mix and Apply



Two Components,
Mix and Apply

Titanium Putty

Metal-Tek® Titanium Putty is a high performance, titanium reinforced epoxy specially developed for making repairs that can be precision machined.

Application: For repairing and rebuilding load bearing components, machineries, and equipments that can be precision machined.

Product Features:

- Provides excellent temperature resistance
- High compressive strength
- Good resistance to chemical and most acids, bases, solvent, and alkalis
- Withstand heavy loads in harsh chemical environments
- Can be drilled, tapped, machined, or painted

Plastic Steel 5 Min Putty (SF)

Metal-Tek® Plastic Steel 5 Minutes Putty (SF) is a steel-filled, fast setting epoxy putty for filling, rebuilding and bonding metal surfaces.

Application: Ideal for urgent and quick repair of steel, iron, stainless steel, metal damaged parts, worn parts and leaks. It can be applied to watercrafts, machines, automobiles, and mining machinery.

Product Features:

- Fast curing, in less than an hour
- Stainless steel-filled two-component epoxy putty
- Suitable for quick emergency repairs
- Can be drilled, tapped, machined, or painted

Flex Putty

Metal-Tek® Flex Putty is a trowelable, 100% solids, tear-resistant urethane compound. Ideal for lining and repairing equipment exposed to abrasion, vibration, and movement. Contains a set of resin and hardener.

Application: For repairing and rebuilding conveyor belts, line process equipment to dampen noise, line concrete control joints, cast flexible molds, fixtures, and parts, pot and encapsulate.

Product Features:

- Cures to a tough, medium-hard rubber (Hardness 87 Shore A)
- Service temperatures to 82°C in dry environments and 49°C in wet environments
- Bonds to metal, concrete, rubber, wood, and fiberglass surfaces





Two Components,
Mix and Apply

Wear Resistant Putty (WR)

Metal-Tek® Wear Resistant Putty (WR) is a high wear resistant and self-lubricating compound for repairs requiring smooth surfaces against sliding wear.

Application: Repair and rebuild metal shafts and pumps, make bearings and metal forming dies, duplicating masters, and general repairs. It bonds with steel, iron, aluminum, ceramic, concrete, brass, and some plastics.

Product Features:

- Non-shrinking
- Suitable for vertical surface application
- Highly adhering coating with excellent impact and wear resistances
- Contains wear resistance fillers for low-friction application



Two Components,
Mix and Apply

Wear Resistant Putty (WR-2)

Metal-Tek® Wear Resistant Putty (WR-2) is a smooth, non-rusting and all-purpose epoxy specially developed for repairs requiring low-friction finishes.

Application: For repairs requiring low-friction finishes. It bonds to steel, iron, aluminium, ceramics, concrete, brass, and some plastics.

Product Features:

- Non-rusting
- Excellent wear resistance
- Protection from bimetallic corrosion
- Contains wear resistant fillers for low-friction application



Two Components,
Mix and Apply



Two Components,
Mix and Apply



Two Components,
Mix and Apply

Super Metal Putty (HT111)

Metal-Tek® Super Metal Putty (HT 111) is formulated from ceramic steel reinforced polymer system for repairing and rebuilding metal, concrete, wood, ceramics, and some plastics.

Application: For repairing worn rotating shafts, hydraulic rams, oversize housings, worn keyways, damaged engine blocks, distorted angles, pinholes, and fractured pipes.

Product Features:

- Cures at room temperature
- Excellent hardness
- Cold welding repairing material
- Versatile durable repair composite
- Outstanding adhesion to all metals
- Excellent corrosion resistance
- Superior chemical resistance
- Can be drilled, tapped, machined, or painted



HR Super 3000 Putty

Metal-Tek® HR Super 3000 Putty cures in just a few minutes at over 100°C, making it ideal for emergency repairs. It provides excellent temperature resistance with continuous services temperature (200-220°C) and maximum temperature (300°C). Using this epoxy with enclosed glass tape at high temperatures and pressures enhances its strength.

Application: For repairing worn rotating shafts, and repairs that can be precision machined.

Product Features:

- Alloy and ceramic filled two-components epoxy putty
- Excellent hardness
- Cold welding repairing material
- Versatile durable repair composite
- Outstanding adhesion to all metals
- Excellent corrosion resistance
- Superior chemical resistance
- Can be drilled, tapped, machined, or painted



Underwater Putty (UW)

Metal-Tek® Underwater Putty (UW) is a tough epoxy used for repairing on wet or underwater conditions.

Application: For repairing, patching, and rebuilding equipment, such as pipelines, valves, pump shells, tanks, and concrete, that is usually exposed to wet conditions. Fills or bonds steel, iron, aluminum, brass, bronze, concrete, wood and plastic gaps.

Product Features:

- Suitable for moist or wet conditions
- Excellent oil and chemical resistance
- Bonds to metallic and non-metallic surfaces
- Excellent durability
- Excellent working efficiency
- Can be drilled, tapped, machined, or painted





Epoxy Putty Stick Just cut, mix and apply on damaged area

Metal-Tek® Epoxy Putty Stick is ideal for emergency repairs. Easy to carry and use: cut as you need, mix with fingers and patch repair area.

Application: For stopping leaks, filling holes and cracks, bond and repair almost everything.

Product Features:

- Repair in 20mins • Works underwater
- No special tools or hot work required
- Safe for drinking water • Resistant to most chemicals
- Can be drilled, tapped, machined or painted
- Does not crack, shrink or pull away
- Non-toxic and solvent-free
- Withstand temperature up to 150°C



Two Components, Mix and Apply

Two Components, Mix and Apply

Two Components, Mix and Apply

Resin & Activator

Metal-Tek® Resin & Activator is a free-flowing resin and activator that impregnates glass, cloth, tape and mat and bonds tenaciously to any surface to create a tight and high temperature resistant seal that won't dissolve in water and oil.

Application: Applied as a corrosion barrier on pipes, storage tanks, vessels, exhaust lines, bulkheads, machineries, joints and large surfaces.

Product Features:

- Corrosion barrier and isolator
- High adhesion strength
- Excellent alkali and acid resistance
- Easy application by use of paint rollers or paint brushes
- Applicable for pipes, tanks, and large surfaces

Resin & Activator (RED)

Metal-Tek® Resin & Activator (RED) is a tough, dense compound that sets up hard and has high adhesive properties. For plugging large holes before reinforcing with activated resin and fiberglass cloth.

Application: For repairing and rebuilding of defects and worn metallic parts, applicable to watercrafts, machines, automobiles and mining.

Product Features:

- Can be clamped over leaks to stop the flow of low temperature, low pressure liquid or steam
- High-strength adhesive material
- Adheres to seal large cracks, small holes in wood, ceramic, steel and other metal surfaces

Strong-Back Putty

Metal-Tek® Strong-Back Putty is a combination of steel packed resin and activator for repairing cracks, holes, crevices and defects in steel and other metals. It can be drilled, threaded, machined filled or hack sawed.

Application: For repair and rebuild of steel and iron casting parts, as well as worn components such as bearings and fan housings.

Product Features:

- Bonds to metals, concrete and plastics
- Cures at room temperature
- Can be drilled, tapped, machined, or painted
- Excellent resistance to oil, gasoline, water, and chemicals
- Ideal for repair and patching areas where welding or brazing is undesirable





Ideal Application



Size Available:
5cm x 1.8m
5cm x 3.6m
7.5cm x 2.7m
10cm x 3.6m

Pipe Repair Tape (Fiberglass) Activates by water, set in 30 minutes

Metal-Tek® Pipe Repair Tapes are made of fiberglass pre-impregnated composites that are activated by saltwater or freshwater. Comes in a foil pouch that is hermetically sealed, ready for use, and does not require any measurement or mixing. Damaged pipe can be repaired, reinforced, and further strengthened in minutes, thus reducing downtime.

Application: Provides impact protection for pipes, useful for emergency repair of damaged or corroded pipes, and for fixing irregular pipe fittings.

Product Features:

- Ready to use
- Cost-effective and time saving
- No mixing and no mess
- Set in 30 minutes
- Bonds to most materials
- Smooth ivory finish
- Enhance chemical resistance



Size Available:
25mm x 10m
38mm x 10m
50mm x 10m

Leak None Tape

Metal-Tek® Leak None Tape is designed to prevent leakage and splash of inner pressure fluid in liquid, air, and powder from pipe or hose. When you overlap about every half width of tape while taping, it will adhere. In addition to repairing leaks, it can also protect against salt damage and provide electric insulation.

Application: Suitable for most types of pipes, including plastics. Useful for repairing leaking pipes and hoses, protecting electrical connections, cables and ropes, as well as providing anti-slip handles for hand tools, and much more.

Product Features:

- Cost-effective and time saving
- Can be used on any metal or non-metal pipes
- Usable underwater
- Easy to remove



Ideal Application



1 Unit



4 Units



5 Units

Pipe Repair Kit

Metal-Tek® Pipe Repair Kit contains one set of fast curing epoxy putty stick and a pack of fiberglass pipe repair tape, both items are used together for quick and effective repair of damaged pipes.

Application: For fixing cracks, leaks, fractures, and corrosion porosities in pipelines for water, gas, oil, steam, and solvents.

Product Features:

- Ready to use
- No special tools or hot work required
- Repairs leak in 30 minutes
- Can be used on any metal or non-metal pipes
- Safe for drinking water and resistant to most chemicals
- Reinforce and strengthen pipe after repair
- Permanent repair and extends service life of pipe



Variation:

- 1 Unit (1x Pipe Repair Tape)
- 4 Units (4x Pipe Repair Tapes)
- 5 Units (5x Pipe Repair Tapes)



Fiberglass Repair Kit

Metal-Tek® Fiberglass Repair Kit contains all that you'll need to repair any kinds of objects with a strong, permanent, glass fiber reinforced repair. By applying activated resin to the glass fibre mat, you can create a hard, durable plastic that will hold its form permanently.

Application: Can be used to repair boats, ponds, gutters, downpipes, and other marine applications.

Product Features:

- Kit includes all materials for easy application
- Cost-effective repair



Complete Repair Kit

Metal-Tek® Complete Repair Kit provides everything you need to conduct a quick, easy, and efficient emergency repair on corroded or leaking pipes. This kit includes epoxy putty, fiberglass tape and cloth, along with a complete arsenal of tools and accessories for your repairs.

All items are packed in a clear plastic storage container.

Size: 560mm x 420mm x 330mm



METAL-TEK® Aerosols & Compounds

- **Aerosols**
- **Solid Lubricants**
- **Pipe & Tank Protection Coatings, and more**

For various application and purposes which include leakage detection, anti-seizing, anti-corrosion, etc.

Metal-Tek® offers a wide range of aerosol products to meet your needs. Aerosols we offer include leak detection, smoke detection, gasket removal, lubrication, electrical component cleaning, insulation, and waterproofing.

For lubrication of machine parts, Metal-Tek® provide a broad selection of Graphite and Molybdenite Concentrates.

Additionally, we also provide Pipe Dressing and Apexior Compound for corrosion protection of deck machinery, tanks, and pipelines. As well as insulation putty for sealing cable entrance through walls, floors and terminal boxes.



Ideal Application



Super Color Check Set

A non-destructive leak detection system

Despite a very small opening width on the surface, many cracks in engineering materials can be very deep and cause very serious defects. By using Metal-Tek® Super Color Check Set, cracks can be detected that are difficult to detect with regular visual inspection. We use three products: Cleaner, Penetrant, and Developer for the control.

Application: For checking welding work or for surface monitoring of workpieces, pipes, tanks, etc.

Product Features:

- Check can be carried out with ready-to-use aerosols
- Cost-effective and time saving
- Sensitive and reliable test method
- Widely applicable



Color Check Cleaner Spray

Metal-Tek® Color Check Cleaner Spray is a fast drying, colorless solvent that is specially developed as a pre-treatment of the surface, prior to liquid penetrant inspection and to remove all visible, colored traces of the penetrant.

Application: Used in conjunction with the Metal-Tek® Color Check Penetrant and Developer for checking welding work or for surface monitoring of workpieces, pipes, tanks, etc.

Product Features:

- Excellent performance
- Portable
- Fast drying
- Leaves no residue



Color Check Penetrant Spray

Metal-Tek® Color Check Penetrant Spray is a highly visible red dye which penetrates into even the tiniest defect or crack.

Application: Used in conjunction with the Metal-Tek® Color Check Penetrant and Developer for checking welding work or for surface monitoring of workpieces, pipes, tanks, etc.

Product Features:

- Easily removed by solvent cleaner
- User-friendly



Color Check Developer Spray

Metal-Tek® Color Check Developer Spray contains fast drying white coating that offers maximum visibility against the Penetrant.

Application: Used in conjunction with the Metal-Tek® Color Check Penetrant and Developer for checking welding work or for surface monitoring of workpieces, pipes, tanks, etc.

Product Features:

- Easily removed after inspection
- Fast drying to form a white powder coating
- Does not run-off



High-Temperature



G-Rapid Spray Lubricant

Metal-Tek® G-Rapid Spray is an excellent high-temperature lubricant specially formulated for reducing fretting and running-in of plain bearings and sliding surfaces.

Application: An ideal lubricant for metal working such as thread cutting, grinding, and casting. Can also be used for machine assembly and preventing fretting corrosion.

Product Features:

- Good corrosion protection
- Ideal for wide range of temperatures
- High-temperature performance
- Service temperature range of -34°C to 400°C

High-Temperature



High-Temperature



1000 Spray Lubricant

Metal-Tek® 1000 Spray is an excellent high-temperature lubricant specially formulated for reducing fretting and running-in of plain bearings and sliding surfaces.

Application: An ideal lubricant for metal working such as thread cutting, grinding, and casting. Additionally, it can be applied as a pre-treatment before grease or oil lubrication, to protect against seizure and running-in, and to prevent fretting corrosion.

Product Features:

- Designed as a running-in lubricant
- Does not require burnishing
- Good corrosion protection
- Ideal for wide range of temperatures
- Contains a solvent that quickly evaporates, allowing sprayed part to be ready for use right away
- Service temperature range of -34°C to 400°C



Copper Anti-Seize Spray Lubricant

Metal-Tek® Copper Anti-Seize Spray is a high-performance compound specifically formulated to protect fasteners from seizure induced by extremes of temperature, pressure and corrosion. The semi-synthetic base fluid is reinforced with anti-oxidants, corrosion inhibitors and ultra-pure copper particles to provide outstanding protection to threads and components.

Application: Suitable for machine parts, bearings, and starvation. Additionally, it serves as an assembly and anti-seize lubricant.

Product Features:

- Excellent lubricating properties at high temperatures
- Good corrosion protection
- Prevents pick up and seizure
- Service temperature range of -35°C to 400°C



Belt Dressing Spray Lubricant

Metal-Tek® Belt Dressing Spray is specially formulated to condition and lubricate drive belts. It can be used to prevent slippage of V-belts and Flat belts.

Application: Applicable to compressors, pumps, conveyors, automotive and farm equipment, bushings, bearings and polishing belts.

Product Features:

- Increase friction coefficient of the belt
- Remove dust
- Reduce slipping
- Prevents cracking
- Noise prevention of the belt





Smoke Detector Tester Spray

Metal-Tek® Smoke Detector Tester Spray is specially formulated for the simulation of smoke activation. The formulation of aerosol particles simulates smoke during fire conditions.

Application: For secure testing of optical or photoelectrical smoke detectors without the need of additional testing instruments.

Product Features:

- Fast activation
- Portable
- Fast drying
- Easy testing procedure



Gasket Remover Spray

Metal-Tek® Gasket Remover Spray is made specifically for removal of conventional and form-in-place gaskets on motors, pumps or flanges.

Application: Removes baked-on gaskets and gasket cements, formed-in-place gaskets, gasket from aluminium without scraping, gasket from small difficult to reach areas. Suitable in motors, pumps or metals.

Product Features:

- Easily removes gasket and sealant
- Eliminate excessive scrapping and cleaning
- Can also remove paints



Electric Motor & Contact Cleaner Spray

Metal-Tek® Electric Motor & Contact Cleaner Spray is a fast acting and non-corrosive solvent for cleaning and degreasing of oil, dirt, grease and grime on electrical parts and equipment. It dissolves and removes film and dirt to ensure reliable contact. It does not affect metals or resin.

Application:

- Cleaning electrical motors, electric and mechanical equipment (e.g. switches, contact point, coils).
- Degreasing air conditioning motors, generators, radar equipment.
- Cleaning aviation and motor engines.
- General degreasing of equipment in which the use of other flammable solvents and water are not desirable.

Product Features:

- Improves the conductivity of contacts, commutators, etc.
- Restores and maintain the resistivity of insulating materials
- Reduce maintenance and ensure reliable contact
- Fast-drying and harmless to insulation
- Leaves no residue



Clear Insulation Varnish Spray

Metal-Tek® Clear Insulation Varnish Spray seals, insulates, waterproofs, electrical motors and electronic components. The film dries to a flexible, tough, oil-proof surface. Formulated from isophthalic for chemical resistance and excellent electrical properties. Compatible with almost any normal insulation system.

Application: Applicable for air-drying finish for coils, windings, insulating boards, moldings, impregnated of small coils, armature, stator windings, high voltage circuits commutator ends, coils, leads, frayed insulation, printed circuit boards, wiring installations, metal chrome parts, electrical connectors and battery terminals.

Product Features:

- Highly resistant to oils, moisture, acids, and alkalis
- Protects metal, wood, paper, and leather surfaces
- Fast-drying



Red Insulation Varnish Spray

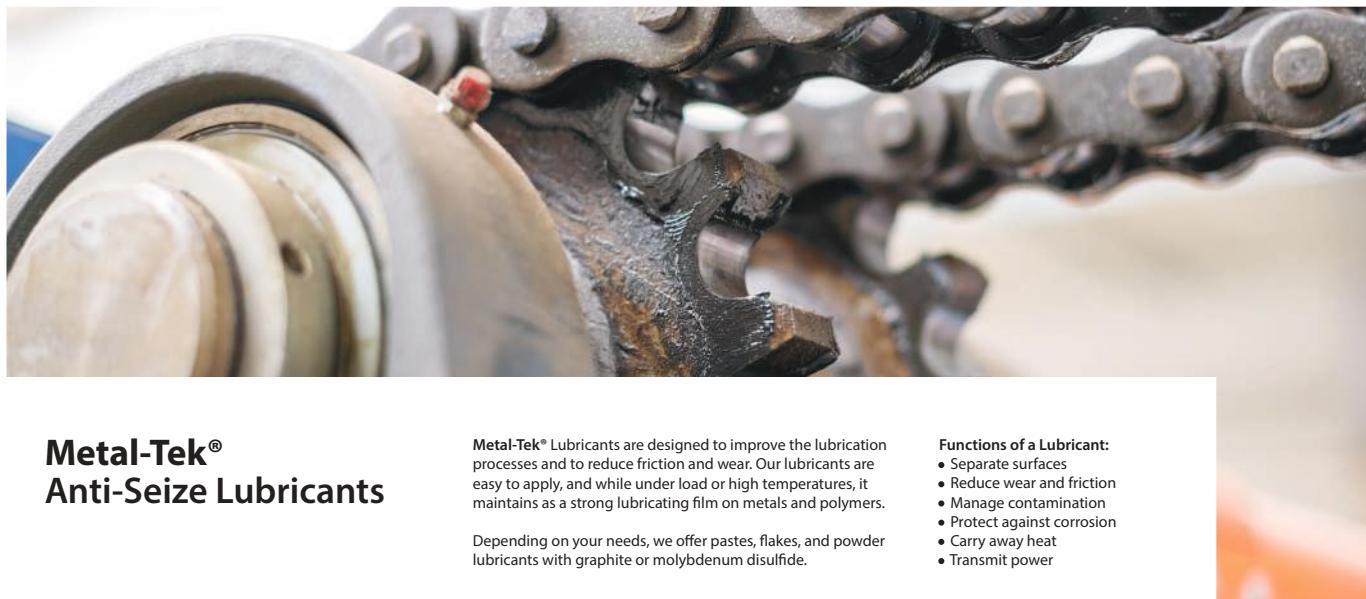
Metal-Tek® Red Insulation Varnish Spray seals, insulates, waterproofs, electrical motors and electronic components, yet allows visual inspection of the insulated parts. The film dries to a flexible, tough, oil-proof surface. Formulated from isophthalic for chemical resistance and excellent electrical properties. Compatible with almost any normal insulation system.

Application: Applicable for air-drying finish for coils, windings, insulating boards, moldings, impregnated of small coils, armature, stator windings, high voltage circuits commutator ends, coils, leads, frayed insulation, printed circuit boards, wiring installations, metal chrome parts, electrical connectors and battery terminals.

Product Features:

- Highly resistant to oils, moisture, acids, and alkalis
- Protects metal, wood, paper, and leather surfaces
- Fast-drying





Metal-Tek® Anti-Seize Lubricants

Metal-Tek® Lubricants are designed to improve the lubrication processes and to reduce friction and wear. Our lubricants are easy to apply, and while under load or high temperatures, it maintains as a strong lubricating film on metals and polymers.

Depending on your needs, we offer pastes, flakes, and powder lubricants with graphite or molybdenum disulfide.

Functions of a Lubricant:

- Separate surfaces
- Reduce wear and friction
- Manage contamination
- Protect against corrosion
- Carry away heat
- Transmit power



M-30 Paste

Metal-Tek® M-30 Paste is a high-temperature lubricant comprising colloidal molybdenum disulfide in a non-carbonizing synthetic carrier, developed to lubricate and prevent the seizing of machine parts.

Application: Dry burnish (rubbed on) lubricating film for machine parts. Also serves as a solid lubricant additive in self-lubricating plastic, sinter metal parts and metal working compounds, or a run-aid in press fittings, heavy loads and slow speeds applications. Suitable for extreme environments.

Product Features:

- Increases load-carrying capacity
- Reduces friction and wear
- Improves running-in
- Emergency running properties
- No resinification



1000 Paste

Metal-Tek® 1000 Paste is a solid lubricant paste that is suitable for protection of threaded connections exposed to extreme heat or corrosive environment.

Application: Ideal for bolted joints that are subjected to high temperatures and to corrosive effects. It is also applicable for cylinder head bolt, nozzle head screws, bolted joints and tension rings.

Product Features:

- Good corrosion protection
- Heavy load carrying capacity
- Suitable for a wide range of temperatures



BR-2 Plus Paste

Metal-Tek® BR-2 Plus Paste is a universal and high-performance grease with solid lubricants developed to lubricate and prevent the seizing of machine parts.

Application: Versatile grease recommended for general and wide applications. Commonly used for roller bearings, plain bearings, sliding guides, roller guides, ball-and-socket joints, and splined shafts.

Product Features:

- Good corrosion protection
- Good for long-term lubrication
- Heavy load carrying capacity
- Excellent water resistant





High-Temperature

U-Paste

Metal-Tek® U-Paste is a solid lubricant paste and a low friction assembly aid. It is specially created for assembling, running-in and lubrication of components subjected to high temperatures.

Application: Dry burnish (rubbed on) lubricating film for metallic contacts. Also serves as a solid lubricant additive in self-lubricating plastic, sinter metal parts and metal working compounds, or a run-aid in press fittings, heavy loads and slow speeds applications. Suitable for extreme environments.

Product Features:

- High-temperature performance
- Compatible with many types of elastomers and plastics
- Good water resistance



High-Temperature

Micro Powder

Metal-Tek® Micro Powder is a highly refined and purified molybdenum disulfide powder.

Application: Dry burnish (rubbed on) lubricating film for metallic contacts. Also serves as a solid lubricant additive in self-lubricating plastic, sinter metal parts and metal working compounds, or a run-aid in press fittings, heavy loads and slow speeds applications. Suitable for extreme environments.

Product Features:

- Excellent lubricating properties
- Reduction of friction
- Effective lubrication for metal surface in extreme environment
- Resistant to oxidation



High-Temperature



High-Temperature

**Z Powder**

Metal-Tek® Z Powder is highly refined and purified molybdenum disulfide powders. As a dry and solid lubricant, it is used for applications that are exposed to extreme environments, slow speeds and heavy loads.

Application: Dry burnish (rubbed on) lubricating film for metallic contacts. Also serves as a solid lubricant additive in self-lubricating plastic, sinter metal parts and metal working compounds, or a run-aid in press fittings, heavy loads and slow speeds applications. Suitable for extreme environments.

Product Features:

- Excellent lubricating properties
- Reduction of friction
- Effective lubrication for metal surface in extreme environment
- Resistant to oxidation

**M-77 Paste**

Metal-Tek® M-77 Paste is a multipurpose extreme pressure lubricating paste.

Application: For lubrication points with low to moderate loads and low speeds which are subjected to water and extreme temperatures. At temperatures above 230°C the carrier volatilizes leaving virtually no residue, and the remaining dry sliding film takes over the lubrication up to 400°C. Suitable for lubricating parts consisting of materials that are not resistant to mineral oils (e.g., metallic machine parts with frictional and contact surfaces, brake anchor plates and brake pistons of disc brakes).

Product Features:

- Good water resistance
- Compatible with many types of elastomers and plastics
- Paste lubrication up to 230°C, dry lubrication up to 400°C
- Good volatilization properties

**G-M Paste**

Metal-Tek® G-M Paste is a low friction assembly aid containing a synergistic mixture of solid lubricants.

Application: Running-in lubricant for new machines and gearboxes. Can be served as a permanent lubrication for machine parts that move rarely or slightly, as well as to drill, saw, and cut threads. Also highly useful for lubricating splined shafts, threaded spindles, toothed gears, worn transmission gears, screws, valves, pumps, machine-tool guides, and for tightening and fitting roller bearings, washers, wheels, flanges, and bolts.

Product Features:

- High pressure-absorption capacity
- Low coefficient of friction
- Good anti-corrosion properties
- Reduces frictional corrosion
- Simplifies dismantling processes
- High surface covering capacity





Graphite Paste

Metal-Tek® Graphite Paste is a solid lubricant paste for the assembly and running-in metal components. It is an outstanding product for high-temperature application such as cylinder head studs, face plate studs, boiler, and man head gaskets. It will also keep joints leak-proof against oil, acids, and gases.

Application: Running-in lubricant for new machines and gearboxes. Can be served as a permanent lubrication for machine parts that move rarely or slightly, as well as to drill, saw, and cut threads. Also highly useful for lubricating splined shafts, threaded spindles, toothed gears, worn transmission gears, screws, valves, pumps, machine-tool guides, and for tightening and fitting roller bearings, washers, wheels, flanges, and bolts.

Product Features:

- High-pressure absorption capacity
- Simplifies dismantling processes
- Good anti-corrosion properties
- Reduces frictional corrosion
- High surface covering capacity
- Low coefficient of friction
- Prevents from stick-slip



Graphite Flakes

Metal-Tek® Graphite Flakes are dry, solid lubricants used in applications exposed to extreme conditions, slow speeds, and heavy loads. Graphited surfaces improve lubrication and extend the life of oils and greases. Graphite flakes can also be used as a paint pigment for heat resistant protective coats.

Application: Dry burnish (rubbed on) lubricating film for engines, compressors, etc. Also serves as a solid lubricant additive in self-lubricating plastic, sinter metal parts and metal working compounds, or a run-aid in press fittings, heavy loads and slow speeds applications.

Product Features:

- Excellent lubricating properties
- Reduces friction and wear
- Wide service temperature range
- Extreme pressure resistance
- Resistant to oxidation



Graphite Powder

Metal-Tek® Graphite Powder is a powdered graphite-mic-floated, extra finely powdered and more adhesive than ordinary graphite flakes.

Application: Dry burnish (rubbed on) lubricating film for precision equipments. Also serves as a solid lubricant additive in self-lubricating plastic, sinter metal parts and metal working compounds, or a run-aid in press fittings, heavy loads and slow speeds applications.

Product Features:

- Excellent lubricating properties
- Reduces friction and wear
- Wide service temperature range
- Extreme pressure resistance
- Resistant to oxidation



Copper Anti-Seize Compound

Metal-Tek® Copper Anti-Seize Compound is a high-performance compound specifically formulated to protect fasteners from seizure induced by extremes of temperature, pressure and corrosion. The semi-synthetic base fluid is reinforced with anti-oxidants, corrosion inhibitors and ultra-pure copper particles to provide outstanding protection to threads and components.

Application: Ideal for trouble-free dismantling during routine maintenance even after prolonged exposure to high temperature areas up to 1100°C or corrosive conditions such as coal mining or marine environments. It also helps prevent metal to metal contact to avoid danger of galling or pickup under extreme pressure.

Product Features:

- Highly effective oxidation inhibitors
- Resistant to contraction and expansion
- Resistant to corrosion and vibration
- Prevents seizing and galling
- Ensures rapid and easy assembly of threaded parts
- Reduces wear in areas of high friction
- Withstand temperature from -40°C to 1100°C





Pipe Dressing (MT-22)

Heat Resistant / Anti-Corrosive Coating

Metal-Tek® Pipe Dressing is a surface-drying type anti-corrosive coating possessing outstanding resistance to high temperatures.

Application: Suitable for dressing hydraulic and steam lines, windlasses and deck winch cylinders, etc.

Product Features:

- Superior long-term corrosion protection
- Great efficiency with quick & easy application
- No changes in quality under extreme high temperatures (-60°C to 230°C)
- Contains no solvents
- Hygienically harmless and non-polluting

Ideal Application



Apexior Compound No.1

Heat Resistant / Anti-Corrosive Coating

Metal-Tek® Apexior Compound No.1 is specially created for interior surface of steam plants including boilers, economizers, calorifiers, turbines and hot water tanks of temperature above 100°C.

Application: Suitable for steam generating equipment, hot condensate return tanks, hot process tanks, mud and steam drums, steam traps, sterilizing equipment and heat recovery system.

Product Features:

- Air dries, easy to apply
- Easily re-coatible
- Resistant to boiling water and steam to 371°C (700°F)
- Increases heat transfer efficiency
- Outstanding resistance to thermal shock (immersion)
- Inert to water treatment
- Prevents corrosion in standby service
- Prevents scale build up
- Surface tolerant features.

Ideal Application



Apexior Compound No.3

Heat Resistant / Anti-Corrosive Coating

Metal-Tek® Apexior Compound No.3 is specially formulated as an anti-corrosive coating for metal surfaces such as storage tanks that is in contact with fresh or salt water. It is suitable for wet surfaces of a temperature below 50°C or dry and hot surfaces of a temperature up to 200°C.

Application: Applicable for condensers, cold water tanks, centrifugal pumps, piping, ducting, air coolers and metal boilers.

Product Features:

- Air dries, easy to apply
- Easily re-coatible
- Suitable for surface in contact with fresh and salt water
- Excellent anti-corrosive performance
- Prevents scale buildup
- Surface tolerant features

Ideal Application





Gasoline and Oil Finding Paste

Gasoline and Oil Finding Paste is a chemical paste used with oil gauging tape for measuring the presence of various types of oils. The color of the paste will generally change from light pink to deep red upon contact with most hydrocarbon fuels.

Application: Used for testing presence of oil in bottom of oil, diesel, petrol, gasoline, fuel oil and kerosene tanks.

Product Features:

- Instantaneous reactions in gasoline, diesel, kerosene and gas oils
- Accurate oil gauge



Water Finding Paste

Water Finding Paste is a chemical paste used with oil gauging tape for measuring the presence of water. The color of the paste will generally change from golden brown to brilliant red upon contact with water.

Application: Used for testing presence of water in bottom of oil, diesel, petrol, gasoline, fuel oil, and kerosene tanks.

Product Features:

Gauge water content in all petroleum and hydrocarbons as well as sulphuric acid, nitric acid, hydrochloric acid, ammonia, soap solutions, salt, and other chloride solutions.



Grinding and Lapping Compound

Metal-Tek® Grinding and Lapping Compound is made using high-quality grease and petroleum products. The carrier holds the abrasive grains in suspension that perform uniformly during grinding and lapping services, and the special inhibitors leave a thin film on the finished metal surfaces as a protection against rust and oxidation.

Application: Suitable for grinding, lapping, polishing, honing, sharpening, and other general uses in machine shops.

- Lapping valve seat
- Lapping and seating engine exhaust and intake valves
- Remove and condition rough spots for smoother and quieter running gears
- Sharpening of shears and tin snips
- Cleaning and removing rust from threads



Nozzle Lapping Paste

Metal-Tek® Nozzle Lapping Paste is a high-grade silicone carbide abrasive for nozzle lapping.

Application: Suitable for cutting, smoothing and finishing of metal surfaces.

- Lapping valve seat
- Lapping or seating engine exhaust and intake valves
- Conditioning and removing of rough spots on new gears to produce a smooth and quiet running
- Sharpening of shears and tin snips
- Cleaning and removing rust from threads



Insulation Putty

Metal-Tek® Insulation Putty is a non-setting insulation sealing compound.

Application: Used for packing out electrical and cable boxes to prevent the ingress of moisture, sealing around cable runs, blocking holes and making gaskets for extremely uneven faces. It can also seal cable holes through walls, metal and most substrates.

Product Features:

- Highly adhesive
- Waterproof
- Can be moulded





METAL-TEK® **Adhesives & Sealants**

- **Glues**
- **Threadlockers**
- **Gasket Makers**
- **Silicone Sealants, and more**

For sealing and bonding applications, as well as general maintenance and repair work.

Besides glues for general bonding applications, Metal-Tek® also offers threadlockers to prevent loosening or leakage. For your sealing needs, we also provide different types of sealants, including RTV gasket makers.



Two Components,
Mix and Apply



Steel Epoxy Adhesive Just mix and apply, set in just 5 minutes

A two-component adhesive system that forms a strong bond when mixed. It quickly bonds and repairs metals, wood, plastics, tiles, ceramics, fiberglass, PVC, concrete, and more. The bond is permanent, strong, and highly resistant to impact.

Note: Not recommended for bonding most polyethylene or polypropylene plastics.

Application: For repair of autos, appliances, broken furnitures, tools, and much more.

Product Features:

- Durable • Water-resistant
- High impact resistance
- Fast setting • Clear color
- Easy to use



General Purpose Glue

Metal-Tek® General Purpose Glue is a chloroprene rubber based adhesive with high initial bond strength, for indoor and outdoor applications.

Application: Ideal for use in projects with time restrictions and where fast turnarounds are required particularly on interior decoration projects and in the automotive, upholstery and flooring industries. Suitable for bonding a wide variety of materials such as metals, concrete, glass, wood, plastics, paper, leather, rubber and sail cloth.

Product Features:

- Wide Application Range
- Fast Curing Speed
- Initial Adhesion Effect
- Strong and Durable
- Easy to Apply and Brush



Wood Glue

Metal-Tek® Wood Glue has superior adhesion and is designed exclusively for use in general wood working.

Application: Ideal for crafts, furniture building and other wood work. Suitable for use on hardwoods, softwoods and exotic woods.

Product Features:

- Water-resistant
- Fast Curing Speed
- Transparent when dry
- Strong and Durable
- Easy to Apply and Brush
- Paintable





Cyanoacrylate Adhesive (A401)

For Insensitive Surface

Metal-Tek® Cyanoacrylate Adhesives cure quickly when confined between surfaces, triggered by the humidity on the surfaces. For bonding small parts to achieve extremely fast fixturing.

Application: Useful for bonding difficult-to-bond inert materials. Ideal for coarse, porous and acidic surfaces such as wood, rubber, leather and paperboard bonding.

Product Features:

- General purpose
- Medium viscosity
- Fast curing
- Strong bonding
- Does not contain solvent



Cyanoacrylate Adhesive (A406)

For Plastic and Rubber

Metal-Tek® Cyanoacrylate Adhesives cure quickly when confined between surfaces, triggered by the humidity on the surfaces. For bonding small parts to achieve extremely fast fixturing.

Application: Designed specially for bonding of plastics and elastomeric materials where very fast fixture is required.

Product Features:

- For plastics and rubbers
- Low viscosity
- Fast curing
- Strong bonding



Cyanoacrylate Adhesive (A496)

General Purpose / Metal Bonding

Metal-Tek® Cyanoacrylate Adhesives cure quickly when confined between surfaces, triggered by the humidity on the surfaces. For bonding small parts to achieve extremely fast fixturing.

Application: Useful for metal bonding. Can be used on electronics, automobile, watercraft, precision machine, wood, and many more.

Product Features:

- General purpose, suitable for metal bonding
- Medium viscosity
- Fast curing
- Strong bonding
- Does not contain solvent



Cyanoacrylate Adhesive (A495)

General Purpose

Metal-Tek® Cyanoacrylate Adhesives cure quickly when confined between surfaces, triggered by the humidity on the surfaces. For bonding small parts to achieve extremely fast fixturing.

Application: Ideal for filling gaps 0.004" (0.1 mm). Suitable for bonding various materials such as plastics and rubbers.

Product Features:

- General purpose
- Medium to low viscosity
- Fast curing
- Strong bonding
- Does not contain solvent





Ideal Application

Used for threads M2-M8
(Ideal for under M6)

Anaerobic Threadlocker Fills up gaps and bonds metal components

Metal-Tek® Anaerobic Threadlockers are adhesives for nuts, bolts, and screws to lock them in place and avoid loosening caused by stress and vibration.

They replace traditional mechanical washers and fasteners, and are anaerobically curing chemicals that form a strong film in the gaps between the thread of the connection, locking it in place.

TL222 (Low Strength)

Product Features:

- Thixotropic viscosity
- Can be disassembled with tools

Used for threads
M8-M16Used for threads M8-M20
(Ideal for under M18)Used for threads M10-M26
(Ideal for under M20)

TL242 (Med Strength / General Purpose)

Product Features:

- Thixotropic viscosity
- Controlled lubricity for accurate clamp loads
- Can be disassembled with tools



TL243 (Med Strength / Oil Resistant)

Product Features:

- Thixotropic viscosity
- Maintains strong locking at high temperature
- Can be used on surface with slight oil contamination
- Controlled lubricity for accurate clamp loads
- Can be disassembled with tools



TL262 (High Strength / General Purpose)

Product Features:

- Thixotropic viscosity
- Excellent chemical resistance
- Controlled lubricity for accurate clamp loads
- Can be disassembled with tools

Permanent locking and
sealing for threads smaller
than M20Permanent locking and
sealing for threads M16-M26
(Ideal for under M22)Permanent locking and
sealing for threads
M24-M36

TL270 (High Strength)

Product Features:

- High viscosity
- Excellent chemical resistance
- Controlled lubricity for accurate clamp loads
- Heat and tools are required for disassembly



TL271 (High Strength)

Product Features:

- Medium to low viscosity
- Excellent chemical resistance
- Controlled lubricity for accurate clamp loads
- May require localised heat for removal



TL277 (High Strength)

Product Features:

- High viscosity
- Controlled lubricity for accurate clamp loads
- May require localised heat for removal





Anaerobic Retaining Compound (RC648)

High Strength / Fast Cure

Metal-Tek® Anaerobic Retaining Compound (RC648) is a green, fluorescent, low viscosity, high strength adhesive composed of urethane methacrylate acrylic. Used for bonding cylindrical fitting parts, prevents loosening and leakage from shocks and vibrations while providing robust curing performance.

Application: Ideal for retaining parts with clearance or interference fit, such as gears and sprockets on gearbox shafts, and rotors on electric motor shafts.

Product Features:

- High strength
- Medium to low viscosity
- Fixtures in 5 minutes
- Withstands high temperatures to 175°C
- Seals and secures cylindrical assembly under 0.15mm diametral clearance
- Designed for transition fit and interference fit



Anaerobic Thread Sealant (TS542)

Medium Strength

Metal-Tek® Anaerobic Thread Sealant (TS542) is a one component acrylic sealant designed for locking and sealing of metal pipes and fittings. The sealant cures when confined in the absence of air between close-fitting metal surfaces, preventing loosening and leakage from shocks and vibrations.

Application: Suitable for use on fine threads used in hydraulic, pneumatic and general fittings that will be exposed to vibration or repeated impacts.

Product Features:

- Medium strength
- Thixotropic viscosity, does not clog valves or fine filters
- Fast curing, instant low-pressure seal
- Resistant to synthetics, fuel, oil, coolants and hydraulic fluids
- Impervious to all common hydraulic fluids including fire-resistant synthetics
- Locks connection against vibration loosening



Anaerobic Thread Sealant (TS572)

Low Strength

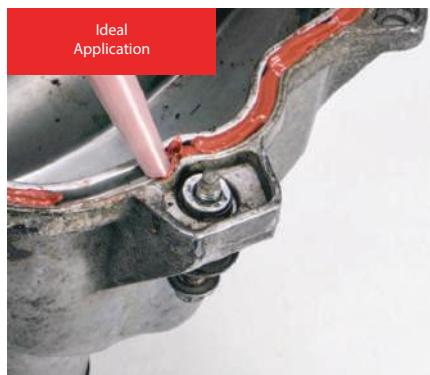
Metal-Tek® Anaerobic Thread Sealant (TS572) is a low strength thread sealant for locking and sealing of metal pipes and fittings to prevent loosening and leakage from shock and vibration.

Application: Ideal for use on coarse threads of metal pipes and fittings, where slow cure is required for adjusting the alignment of fittings.

Product Features:

- Low strength,
- High viscosity
- Slow curing to allow fittings adjustment
- Locks connection against vibration loosening
- Suitable for coarse threads





100% RTV Silicone Gasket Maker Make almost any gaskets instantly

RTV Silicone Gasket Maker is a one-component, acetoxy cure, 100% RTV silicone rubber sealant that is ideal for bonding, waterproofing and insulating most materials.

Application: Suitable for a wide range of automotive applications. Create a reliable, solid-state gasket that retains enough flexibility to withstand cracking, shrinking, as well as migration caused by thermal cycling. Can also be used to coat pre-cut gaskets, increasing their reliability.

Product Features:

- Formulated for high-temperature applications up to 260°C (590°F)
- Resists oil, water, and anti-freeze
- Suitable for use on water pumps, thermostat housings, exhaust manifolds, and exhaust crossover pipes.



Anaerobic Gasket Flange Sealant (FS510)

High Temperature Resistant

Metal-Tek® Gasket Flange Sealant (FS510) is a high temperature resistant and chemical resistant anaerobic sealant which cures between two close-fitting metal surface when confined in the absence of air.

Application: Ideal for use on rigid flanges where high temperature and chemical resistance are required, such as sealing rigid flange faces on transmissions and engine casings.

Product Features:

- High viscosity
- Medium strength
- High temperature resistant
- Excellent solvent and chemical resistance
- Increases the torque capacity of assembled flanges



Anaerobic Gasket Flange Sealant (FS515)

General Purpose

Metal-Tek® Gasket Flange Sealant (FS515) is a general purpose flexible gasketing product for rigid machined parts flange sealing. It cures between two close-fitting metal surface when confined in the absence of air. Once cured, the gasket is flexible and can withstand slight flange movement due to vibrations.

Application: Used for sealing the flanges of rigid machined parts, applicable to heavy-load motive power machines such as automobiles, engineering machines, internal combustion engines, mining equipment, etc.

Product Features:

- Thixotropic viscosity
- General purpose
- Excellent solvent and chemical resistance



Anaerobic Gasket Flange Sealant (FS518)

General Purpose / Suitable for all metals

Metal-Tek® Gasket Flange Sealant (FS518) is a general purpose gasketing product with excellent contamination tolerance for use on rigid iron, aluminum, and steel flanged mating surfaces. It cures between two close-fitting metal surface when confined in the absence of air.

Application: Suitable for sealing flanges of metal parts, or machining parts with minor flange migration under temperatures, pressures, and stresses. Ideal for creating form-in-place gaskets in motor vehicles, engineering machinery, internal combustion engines, mining machines, pumps and other motive power machines.

Product Features:

- Thixotropic viscosity
- Medium strength
- Provides resistance to low pressures immediately after assembly of flanges





Silicone Sealant for general sealing purposes

One-part, fast curing and permanently flexible silicone sealant, resistant to weathering, chemicals and moisture. A great option for sealing items that are exposed to extreme weather conditions.

Application: Suitable for caulking cracks and repairing appliances. Strongly adheres to glass, PVC, ceramic, concrete, wood, metal, tiles, vinyl and most other building materials. Moreover, it has excellent waterproof properties, making it suitable to be used for anti-fungal purposes in a bathroom.

Product Features:

- Fast cure
- Weather-resistant
- Water-resistant
- Excellent adhesion
- Highly flexible



PU-Foam

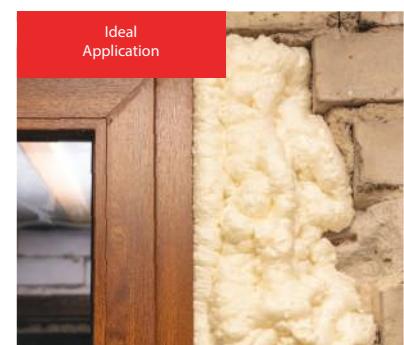
Multi-Purpose

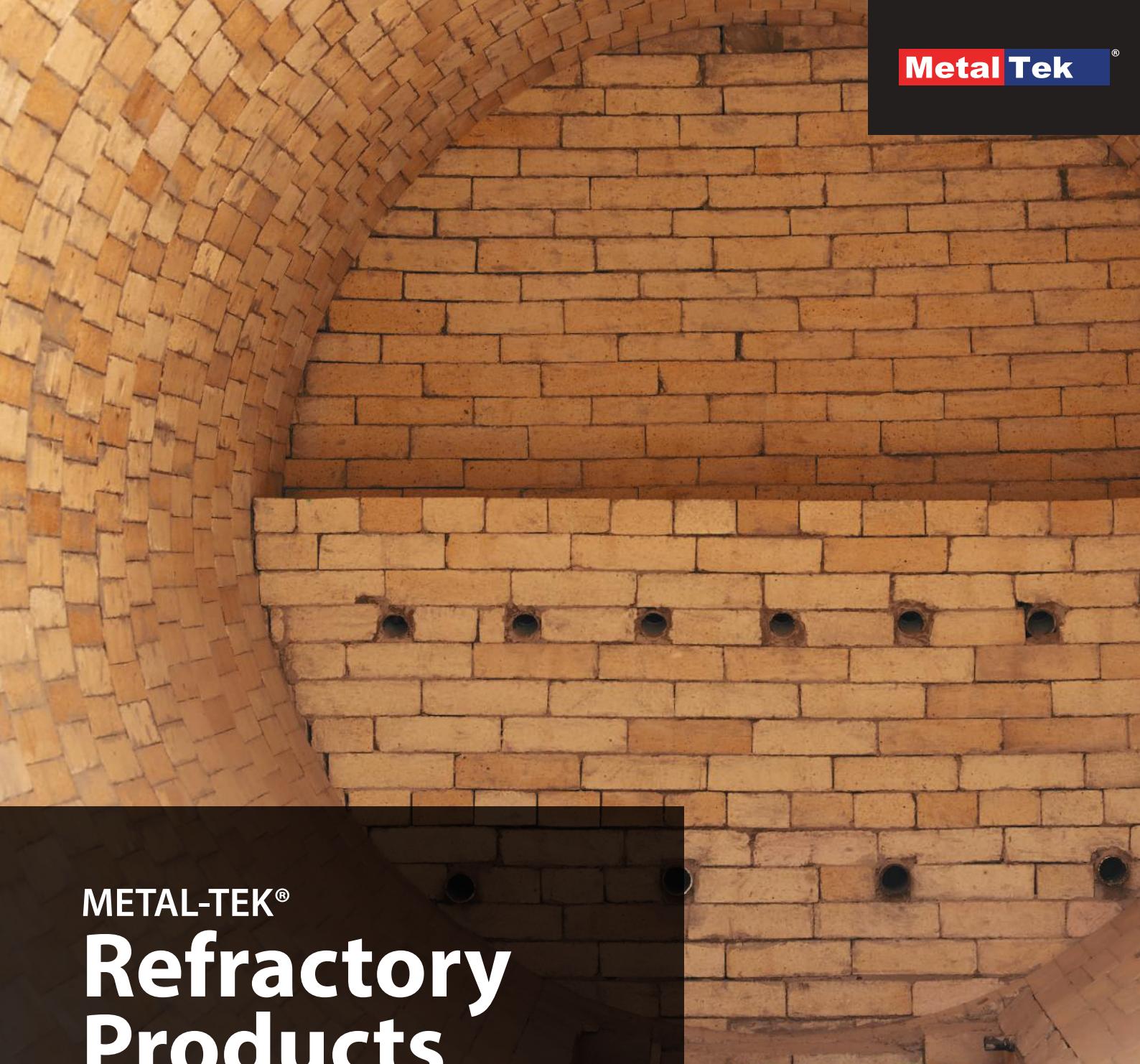
Metal-Tek® PU-Foam is a one-component polyurethane foam which expands and cures through absorption of moisture from the air.

Application: Suitable for use in various applications for decoration, window and door, and other construction projects.

Product Features:

- High thermal insulation properties
- Water and moisture resistant





METAL-TEK® **Refractory Products**

- **Fire Bricks**
- **Plastic Mouldable Refractories**
- **Unshaped Refractories**

For use in the building and furnishing of structures that require protection against corrosion and intense heat.

At Metal-Tek®, you can find a selection of high-quality refractory products for a wide range of high-temperature applications including fire bricks, easy-to-use mouldable plastic refractories, refractory cement, and dense castables.



Fire Bricks (SK34)

A fire brick is a block of ceramic material built primarily to withstand high temperature, but will also usually have a low thermal conductivity for greater energy efficiency.

Application: Ideal for lining furnaces, kilns, fireboxes, and fireplaces. Can also be used as insulation for glass tanks.

Product Features:

- High-temperature resistance
- High density and mechanical strength
- High-resistance to corrosion, abrasion, slag and spall
- Perfect thermal shock resistance
- Low thermal conductivity
- Low Porosity



25Kg

Refractory Plastic Fireclay (Super AB-40)

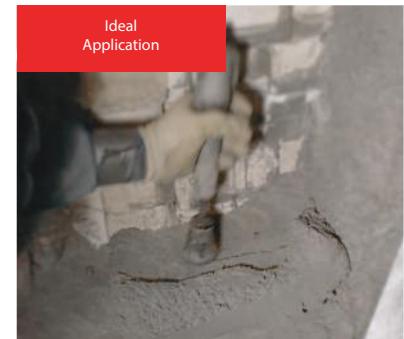
Metal-Tek® Super AB-40 is consisted of carefully selected refractory aggregate (fireclay) and highly-pliable clay, adjusted into a workable form. Ideal for use when refractory castables and bricks are too complicated or cumbersome and formwork is unavailable.

Application: Suitable for boiler work, forge furnaces, tundish linings, ladle linings, burner blocks and patches.

Product Features:

- Excellent strength and high density
- Resistance to abrasion, slag and spall
- Excellent thermal shock resistance
- Mouldable
- Mixing is not required

Ideal Application



25Kg

Refractory Plastic Chrome-Base (Super AB-40-CB)

Metal-Tek® Super AB-40-CB is consisted of carefully selected refractory aggregate (chrome) and highly-pliable clay, adjusted into a workable form. Ideal for use when refractory castables and bricks are too complicated or cumbersome and formwork is unavailable.

Application: Suitable for boiler work, forge furnaces, tundish linings, ladle linings, burner blocks and patches.

Product Features:

- Excellent strength and high density
- Resistance to abrasion, slag and spall
- Excellent thermal shock resistance
- Mouldable
- Mixing is not required



25Kg

Refractory Plastic High Alumina (Super AB-75)

Metal-Tek® Super AB-75 is consisted of carefully selected refractory aggregate (high alumina) and highly-pliable clay, adjusted into a workable form. Ideal for use when refractory castables and bricks are too complicated or cumbersome and formwork is unavailable.

Application: Suitable for boiler work, forge furnaces, tundish linings, ladle linings, burner blocks and patches.

Product Features:

- Excellent strength and high density
- Resistance to abrasion, slag and spall
- Excellent thermal shock resistance
- Mouldable
- Mixing is not required





Refractory Cement (CA50-G6) A common bonding material for refractory castables

A hydraulic binder with an alumina content of approximately 50%. The principal components of CA50 are calcium aluminate, which make it an ideal binder for refractory applications.

Application: Suitable for preparation of medium and low cement castables, such as fluidized bed boiler linings, cement plant preheater, wicketed cover, cooler lining, alumina fluidized calciner lining, heating furnace, soaking pit linings.

Product Features:

- Increase castable strength
- Fast setting at high temperatures
- High temperature resistance
- Biological acid erosion
- Sulfate corrosion resistance
- Low water requirement
- Can be added to both heavy and light castable



Refractory Dense Castable

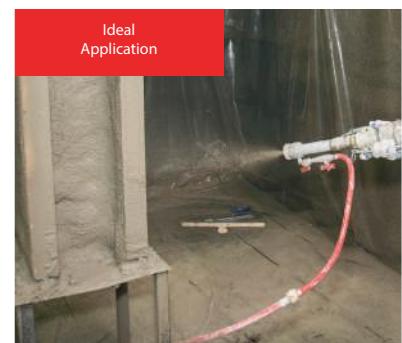
Metal-Tek® Refractory Dense Castables are refractory cements which are mixed with the proper amount of water for installation. We provide dense castables ranging from 45% alumina containing to 85% alumina, which operates at service temperature range of 1300°C to 1700°C.

Application: Mainly used for coating, cast, furnace lining of boiler, blast furnace hot blast stove, heating furnace, ceramic kiln and various industrial furnaces.

Product Features:

- High-temperature resistance
- High mechanical strength
- High impact and wear resistance
- Good thermal shock resistance
- Good slag and corrosion resistance
- Low Porosity

Ideal Application



Fireclay Powder

Metal-Tek® Fireclay Powder is a type of dry milled powder for use in high-temperature applications such as boiler brick work, anti-fire walls, etc.

Application: Ideal for lining of steel rolling heating furnace, heat treatment of furnace, boiler, shaft kiln and preheating zone of rotary kiln.

Product Features:

- High-temperature resistance
- High mechanical strength
- Good thermal shock resistance
- Tiny linear cation, no cracking
- Resistant to scour, erosion, and abrasion
- Good volume stability under high temperatures

Ideal Application





METAL-TEK® Tools

- **Measuring Tools**
- **O-Ring Splicing Kits**
- **Chaulking Gun**

Handy tools suitable for marine use and other professional projects.

A range of useful hand tools and kits are available from Metal-Tek®, including tools for measuring the liquid depth in tank, and crafting kit for creating and repairing of rubber O-Rings.



Ideal Application



Oil Gauging Tape Easily measure the depth of liquid in tanks

Consist of 13 mm steel or stainless steel high etched tape, protected by a high-impact resistant plastic frame. The built-in fixed pulley system allows for quick and easy operation. It comes with a chromed brass drawing weight attached, and tapes are in both mm and inch graduation.

Application: For accurate measurement of oil tank, as well as the depth of petroleum and other liquid products in storage tanks and containers.

Tape Material Available:

- **Stainless Steel:**
Ideal for most oils and liquids
- **Steel White:**
Ideal for dark or light oils and liquids
- **Steel Black:**
Ideal for dark or clear liquids



Also Available:
NBR Rubber Cord

More info under [CVS® Rubber Hardwares](#)

O-Ring Splicing Kit

Contains an assortment of O-Ring cord stocks, splicing jig, cutting blade and adhesive. Available in NBR rubber and FKM rubber.

Application: Handy for creating replacement rubber O-Ring seals, and perform quick repairs on broken seals.



Silicone Chaulking Gun

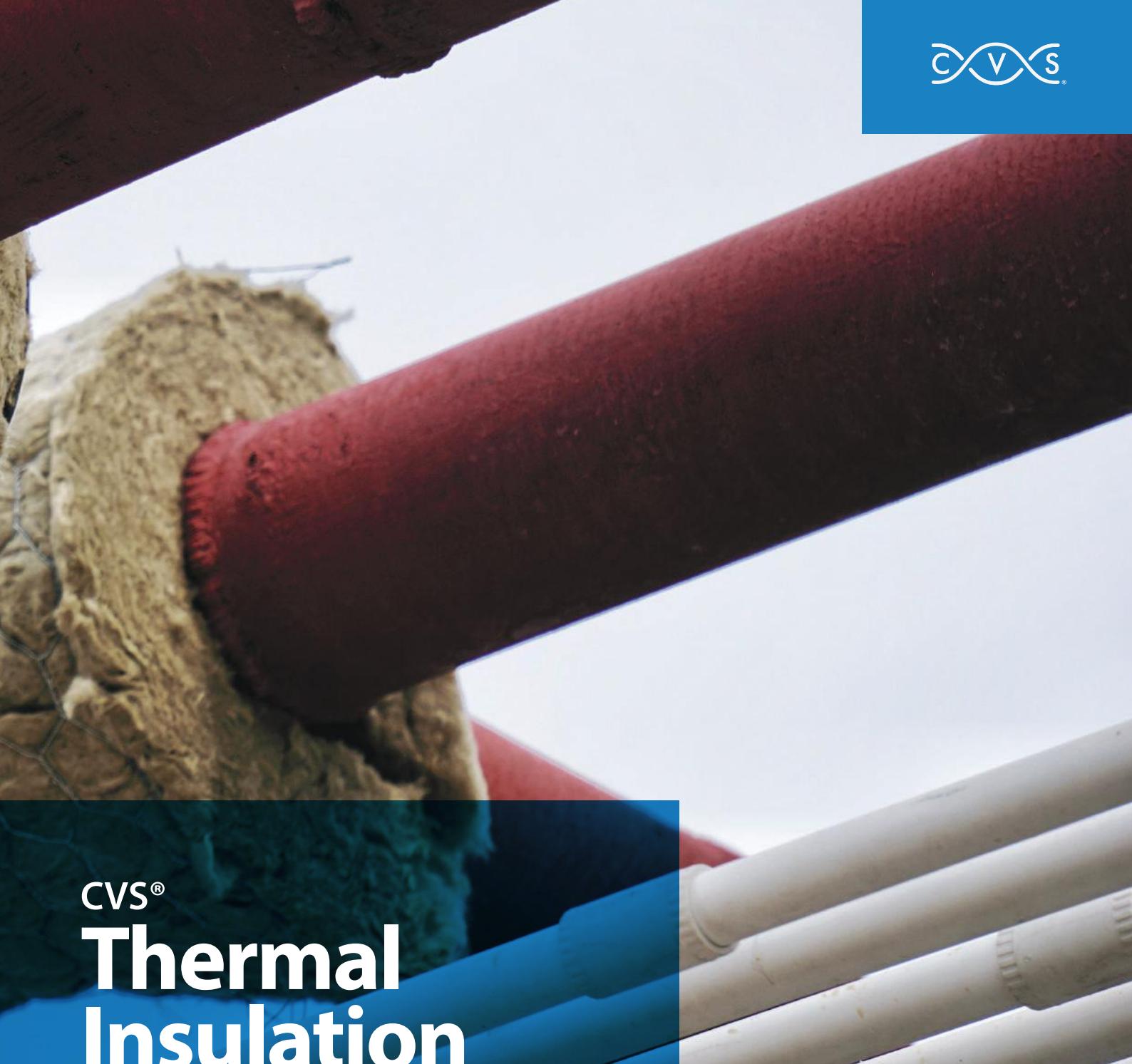
Half-barrel with smooth rod and quick release mechanism. Holds most standard cartridges. Use for light to medium applications.



CVS® guarantees 100% Non-Asbestos products especially for Jointing Sheets, Packings, and Brake Linings.

As a company that prioritizes employee and customer safety, our products are Strictly Non-Asbestos. All of our products are made with safe, non-toxic materials and comply with all safety regulations.

Additionally, we offer **Custom Fabrication** services based on your dimensions and specifications. With our experienced fabricators, you can be sure that your products will meet the highest standards. Our custom fabrications are guaranteed to meet your exact specifications.



CVS®

Thermal Insulation Products

- Ceramic Fiber • Fiberglass • Rock Wool
- Insulation & Protection Mattress,
and more

We offer non-asbestos thermal insulation materials, as well as customizable insulation and protection mattresses.

CVS® offer a range of thermal insulation materials, which include ceramic fiber, fiberglass, and rock wool. The choice of insulation depends on factors like temperature requirements, environmental concerns, safety regulations, and energy efficiency goals.

Each material has unique properties and advantages suitable for various industrial and marine applications.

Our Thermal Insulation Materials are accompanied by Non-Asbestos Test Certificates, which can be provided upon request.



Ceramic Board

Flexible, durable, and lightweight

CVS® Ceramic Board offers thermal insulation with higher rigidity than ceramic fiber blankets.

Application: Suitable for use as hot face lining for high-temperature kiln and furnace, insulation back-up for brick and monolithic refractories, infra-red element supports, glass tank side, end wall and port neck insulation, nuclear insulation application, hot gas duct lining, expansion joint seals, as well as pouring forms for castable.

Product Features:

- Excellent heat resistance and high heat reflectance
- Low thermal conductivity, sound transmission, and heat storage
- High temperature stability
- Excellent resistance to thermal shock and chemical attack
- Excellent strength and hardness



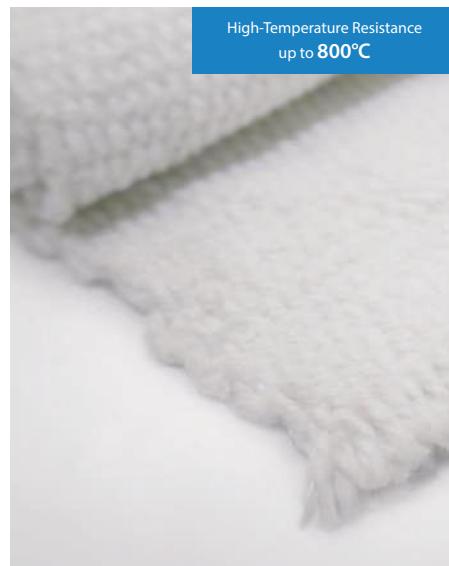
Ceramic Fiber Blanket

CVS® Ceramic Fiber Blanket is made from the purest of raw materials, which are electromelted, air-brown at high speed and fiberized. Light in weight and soft to the touch, ceramic fiber blanket has various application with excellent refractory and insulating properties.

Application: Suitable for sealing, filtering, and reinforcing of various composites. Can be used for furnace linings, heat seals, packing, fire protection, noise reduction and filter material.

Product Features:

- Low heat storage
- Thermal shock resistance
- Chemical and corrosion resistance
- Excellent fire protection



Ceramic Cloth

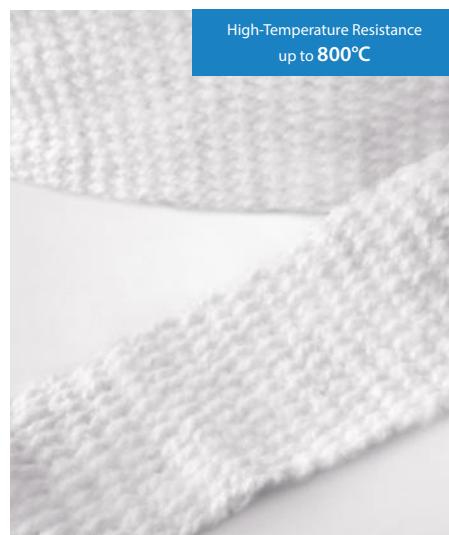
with Stainless Steel Wire Reinforced

CVS® Ceramic Cloth is made of a dense, resilient and high performance ceramic fiber material. It is used as a heat insulation material and is an excellent substitute for asbestos products.

Application: Wide range of utility use, include thermal installations and heat conducting systems, high-temperature protection and insulation, heat radiation shielding, protective clothing, high-temperature fire curtain, cable or fuel pipeline protection, high-temperature metal compensator refractory layer, as well as other industrial thermal insulators, fire-resistors and protectors.

Product Features:

- Light weight
- Excellent heat resistance
- Low thermal conductivity
- Excellent insulation performance
- Resistant to chemical erosion
- Resistant to heat shock
- High mechanical strength
- Non-toxic, harmless, and environmentally friendly



Ceramic Tape

with Stainless Steel Wire Reinforced

CVS® Ceramic Tape is made of a dense, resilient and high performance ceramic fiber material. It is used as a heat insulation material and is an excellent substitute for asbestos products.

Application: Wide range of utility use, include thermal installations and heat conducting systems, high-temperature protection and insulation, heat radiation shielding, protective clothing, high-temperature fire curtain, cable or fuel pipeline protection, high-temperature metal compensator refractory layer, as well as other industrial thermal insulators, fire-resistors and protectors.

Product Features:

- Light weight
- Excellent heat resistance
- Low thermal conductivity
- Excellent insulation performance
- Resistant to chemical erosion
- Resistant to heat shock
- High mechanical strength
- Non-toxic, harmless, and environmentally friendly





Fire Door Packing (NG100)

CVS® Fire Door Packing (NG100) is fabricated using high quality texturized fiberglass yarns wrapped around a ceramic wool core.

Application: Can be used as a gasket or seal on boilers, cooker ovens, industrial ovens and wood stove/pellet stove doors. It is also used for crucible packing, pollution control equipment, and pump shaft packing.

Product Features:

- The material is resistant to most acids and alkalis, as well as most bleaches and solvents
- Flexible and conformable, can be used in a variety of ways



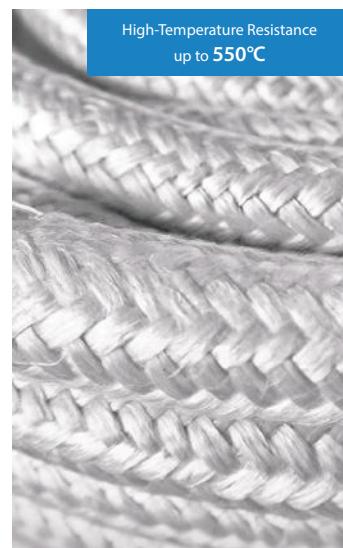
Ceramic Yarn Rope with Stainless Steel Wire Reinforced

CVS® Ceramic Yarn Rope is made of a dense, resilient, and high performance ceramic fiber material.

Application: Suitable for use as fire-proof wrap and insulation, seals for stoves and ovens, expansion joint packing, bulb in tadpole gaskets, gaskets and seals, or as a wick for oil burning apparatus.

Product Features:

- Excellent high-temperature stability
- Excellent chemical stability resistance
- Excellent thermal electrical insulation
- Excellent thermal shock resistance
- Low heat storage
- Excellent sound absorption



Fiberglass Braided Yarn Rope

CVS® Fiberglass Braided Yarn Rope is made from high-temperature fiberglass yarn braided into round form. It is a good substitute for asbestos products.

Application: Extensively used as heat insulation and sealing materials on thermal installations and heat conduction systems.

Product Features:

- Heat, spark, and flame resistant
- Chemical resistant
- High tensile strength
- Low thermal conductivity
- Resistant to mildew
- Durable
- Non-toxic



Fiberglass Tape

CVS® Fiberglass Tapes are made from high-temperature fiberglass yarn, it is a good substitute for asbestos products.

Application: Ideal material for various industrial insulation applications such as strip door curtains for ovens and furnaces, wrapping and insulation for high-temperature pipes, steam tracer lines, and exhaust. As well as gasketing material wherever incombustible materials are required.

Product Features:

- Heat, spark and flame resistant
- Chemical resistant
- High tensile strength
- Low thermal conductivity
- Resistant to mildew
- Durable
- Non-toxic



Glass Wool Mat

CVS® Glass Wool Mat is made of mineral wool, which is manufactured from a blend of natural rocks, selected blast furnace slag/waste materials and coke.

Application: Can be used for pipes, vessels, deck, walls, ceilings, HVAC, AHU room, and duct thermal.

Product Features:

- Light weight
- High tensile strength





High-Temperature Resistance
up to 550°C

Fiberglass Cloth

CVS® Fiberglass Cloths are woven from high-temperature fiberglass yarns, it is a good substitute for asbestos products.

Application: Ideal material for various industrial insulation applications such as strip door curtains for ovens and furnaces, wrapping and insulation for high-temperature pipes, steam tracer lines, and exhaust. As well as gasketing material wherever incombustible materials are required.

Product Features:

- Heat, spark and flame resistant
- Chemical resistant
- Low thermal conductivity
- High dielectric strength
- High tensile strength
- Resistant to mildew
- Durable
- Non-toxic

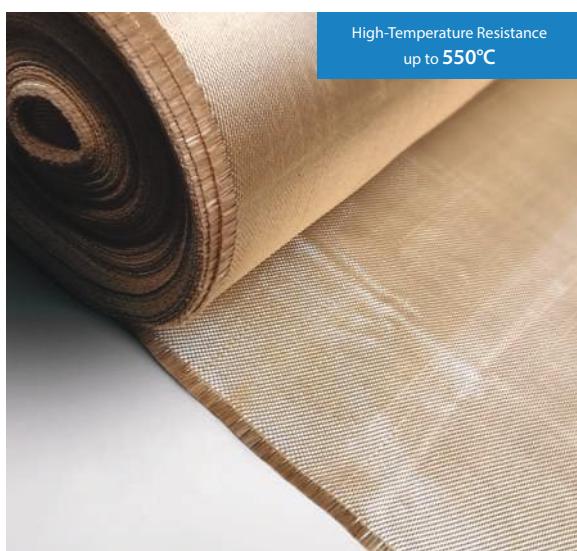


High-Temperature Resistance
up to 550°C



Also Available: One Side Aluminium Coated

Aluminium coated on one side of the fiberglass cloth, ensuring protection to the personnel or equipment by reflecting radiant heat.



High-Temperature Resistance
up to 550°C

Fiberglass Cloth (HT800)

CVS® Fiberglass Cloth (HT800) is effectively used to shield against moderate to heavy welding sparks. It has a non-hairy texture preventing irritation to the exposed skin.

Application: Suitable for pipe lagging, expansion joints, heat shields, welding blankets, fire curtains, machinery protection, and insulation pads for removable flanges and valve covers.

Product Features:

- High heat resistance
- High tensile strength
- Good thermal conductivity
- Good chemical resistance
- Flame resistance

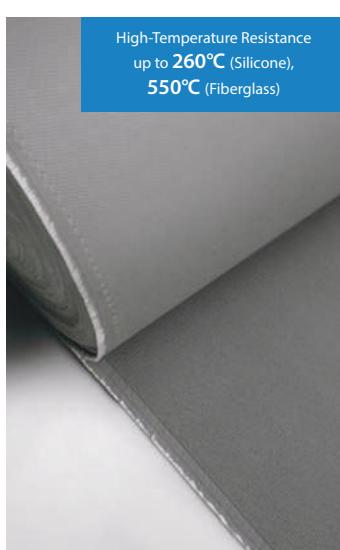


High-Temperature Resistance
up to 550°C



Also Available: One Side Aluminium Coated

Aluminium coated on one side of the fiberglass cloth, ensuring protection to the personnel or equipment by reflecting radiant heat.



High-Temperature Resistance
up to 260°C (Silicone),
550°C (Fiberglass)

Silicone Coated Fiberglass Cloth

A soft, smooth and flexible cloth made from non-textured fiberglass yarns. For thermal insulation and heat protection, replaces asbestos. In addition to sealing properties, silicone rubber coatings increase chemical and oil resistance.

Application: Suitable for electrical insulation, chemical corrosion resistance, sealing material, packing material, conveyor belt, and expansion joints.

Product Features:

- Heat, spark, and flame resistant
- Resist to most acids, chemicals, and oil
- Good tensile strength and heat insulation
- Low coefficient of thermal expansion
- Mildew resistant
- Durable
- Non-toxic



High-Temperature Resistance
up to 550°C

Fiberglass Chopped Strand Mat

A randomly dispersed fiber mat that has equal strength in every direction. Frequently used with polyester resin in mold construction and parts where thickness is needed.

Application: Suitable for hand lay-ups and open-mold applications such as auto parts, boats, chemical tanks, etc.

Product Features:

- Heat, spark, and flame resistant
- Chemical resistant
- Low thermal conductivity
- High dielectric and mechanical strength
- Excellent processing and fast wet-out
- Conform to tight curve and corners
- Can be torn or cut to size
- Non-toxic





Rock Wool Granulated Protection in extreme temperature situations

Unbonded mineral fibre in loose form that can be blown into desired areas, using a blowing machine.

Application: Ideal for installing around wall and floor penetrations to reduce fire pathways. As well as providing insulation to pipes and vessels where space is limited and traditional products are not suitable, fitting easily into grooves, slots, and other hard-to-reach openings. Additionally, can also be used for improving acoustical walls and floors.

Product Features:

- Quicker to install than rockwool rolls
- Low thermal conductivity
- Non-combustible, fire safe
- Corrosion resistant
- Moisture proof
- Sound-reducing



Rock Wool Sheet

An insulation slab designed for general insulation purposes. Manufactured in a wide variety of thicknesses to suit most requirements.

Application: Suitable for economic and effective insulation on thermal, acoustical and fire protection of building, industrial and marine industries.

Product Features:

- Simple and fast installation
- Low thermal conductivity
- Non-combustible, fire safe
- Corrosion resistant
- Moisture proof
- Sound-reducing



Also Available: Aluminium Laminated

Aluminium lamination can increase the strength of rock wool as well as act as a moisture barrier.



Rock Wool Roll with Galvanized Wire Mesh

Suitable for thermal and acoustic insulation of industrial applications reaching high temperatures, such as industry pipe lines, etc.



Rock Wool Roll Aluminium Laminated

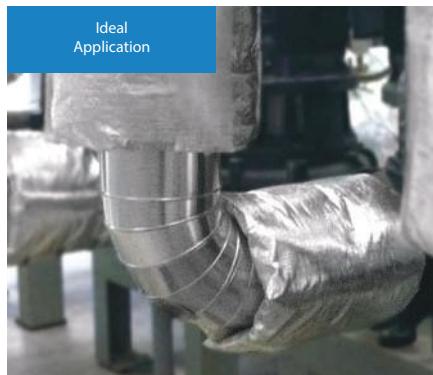
Suitable for roof spaces in all types of buildings, as an overlay for suspended ceiling tiles, etc.



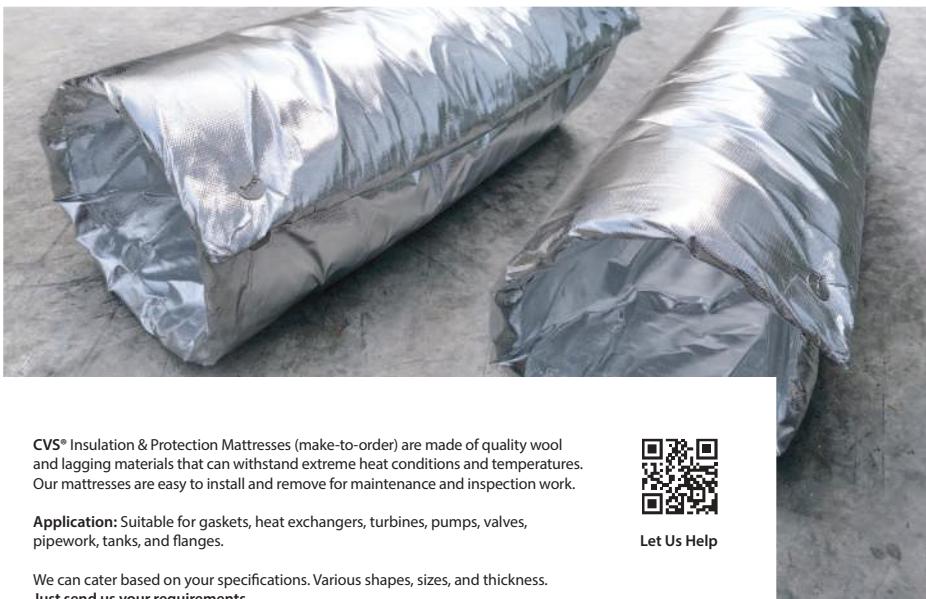
Rock Wool Pipe Cover Aluminium Laminated

Ideal for preserving heat and protecting personnel from equipment such as pipes with large curves and diameters.





Ideal Application



Insulation and Protection Mattresses

High-temperature resistance up to 1260°C

CVS® Insulation & Protection Mattresses (make-to-order) are made of quality wool and lagging materials that can withstand extreme heat conditions and temperatures. Our mattresses are easy to install and remove for maintenance and inspection work.

Application: Suitable for gaskets, heat exchangers, turbines, pumps, valves, pipework, tanks, and flanges.

We can cater based on your specifications. Various shapes, sizes, and thickness. Just send us your requirements.



Let Us Help



Hook-On Attachment

Stainless Steel

To create a hook-on mechanism, we can attach stainless steel lacing hooks and washers to the mattresses. During maintenance or inspection work, this allows for easy installation and removal.



100% Asbestos-Free

Comes with Asbestos-Free test certificate from class approved labs.



Outer Layer

CVS® Fiberglass Cloth HT800

Our mattresses are made with an outer layer of fiberglass cloth with one side aluminum coated, heat resistance of up to 500°C.



Mattress Insert

CVS® Ceramic Wool

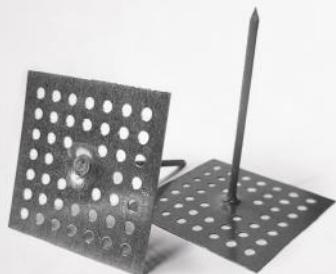
Our mattresses have a ceramic wool insert for shape formation, heat resistance of up to 1260°C. Available in various thickness.





Insulation Pin Set

Support insulation blankets and boards on wall and ceiling



Perforated Insulation Pin
Galvanized Steel

For installing various thermal insulation materials, used in conjunction with self-locking washers. Mounted on walls or ceilings using general purpose adhesive.

Base Plate Size: 50mm² Pin Length: 63.5mm

Insulation pins, also commonly known as hanger pins or install pins. When used in conjunction with the self-locking washers, it plays an integral role in installing and fixing various insulation materials.

Application: Typical applications include using the pins when installing noise insulation panels in engine rooms, compressor enclosures, or HVAC ducting.

Set Includes:

- Perforated Insulation Pin
- Self-Locking Square Washer
- Self-Locking Dome Cap Washer

Can be purchased as a set or individually



Self-Locking Square Washer
Galvanized Steel

For use in conjunction with the insulation pins, apply over the protruding insulation pins to retain and secure the insulation materials.

Washer Size: 38mm²



Self-Locking Dome Cap Washer
Aluminium

For use when appearance and safety are factors when installing insulation materials. The caps are used to cover the nail point on insulation pins.

Washer Diameter: 20mm



Can be purchased as a set or individually

Lacing Hook and Washer Set
Stainless Steel

Lacing Hook and Washer Set is a low cost solution to provide more flexibility with equally secure performance for insulation mattresses.

Application: For securing and tying removable insulation mattresses, use in conjunction with lacing washers. Lacing hooks are installed with tie wire, secured with lacing washers, and the insulation mattress is fastened with lacing wire.

Product Features:

- Allows insulation mattresses to be loosened for access or repositioning without worrying about the lacing wire falling off
- Useful for maintaining the positions of lacing wires when insulating complex shapes





Aluminium Foil Sheet Provides superior radiant heat reflectivity

Double-sided CVS® Aluminium Foil Sheet provides excellent radiant and vapour barriers on its own or laminated onto other insulation materials.

Application: Ideal for use as facing for glass wool insulation and rock wool, as well as duct insulation for air-conditioning. Can also be used as a radiant barrier under all types of roof coverings in commercial, industrial, and residential building.

Product Features:

- Lightweight
- Good heat resistance
- Excellent reflectivity of both heat and light
- Excellent barrier to vapour



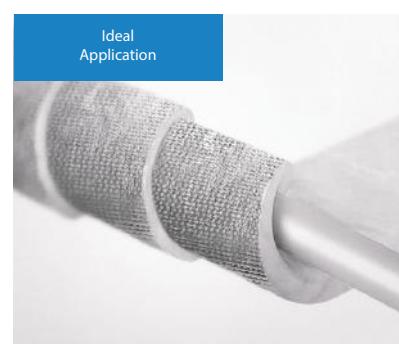
Pipe Insulation Tape

CVS® Pipe Insulation Tape provides a quick and easy way to insulate high-temperature surfaces of pipes or valves in vessel engine rooms. Made from biosoluble vitreous silicate fiber which is reinforced with an outer jacket of heat sealed aluminium foil.

Application: Ideal for use on bent and flanged pipes in areas where maintenance is not a consideration or space is limited.

Product Features:

- High-temperature resistance
- Good water resistance
- Quick and easy installation



Aluminium Foil Tape

Aluminium foil coated on one side with an acrylic pressure sensitive adhesive.

Application: Ideal for sealing joints or seams on foil insulation jacking against moisture and vapour. Also suitable for other permanent sealing, holding, splicing or masking applications requiring the protection provided by an aluminium foil backing. Additionally, it can be used to wrap pipes, engines, wires, and tubes.

Product Features:

- Good heat and water resistance
- Excellent barrier to vapour
- Conform to irregular surfaces
- Easy to tear and use



Aluminized Fiberglass Cloth Tape

CVS® Aluminized Fiberglass Cloth Tape is a thin tape produced by laminating fiberglass fabric with aluminum foil (18µ foil with an 8x8 mesh 95g glass cloth). The tape offers exceptional tensile strength, reflectivity, flexibility, and has a strong flame-retardant acrylic adhesive.

Application: Suitable for sealing joints and seams in industrial pipe thermal insulation application.

Product Features:

- Strong waterproofing and air-tight sealing performance
- High reflectivity of heat and light
- High tensile and tear strength
- Anti-aging



CVS®

Packing & Jointing Products

- Packings • Gauge Glass Materials
- Filter Materials • PTFE Products
- Joint Sheets & Gaskets

We offer 100% non-asbestos packings and gasketing materials, as well as filters, gauge glass materials, and more.



CVS® provides a variety of non-asbestos gland packings, including PTFE, graphite, aramid, hybrid, carbon fiber, and synthetic fiber packings. The selection depends on factors like temperature, pressure, chemicals, and sealing needs.

Consulting with an experienced supplier or engineer is crucial for choosing the right gland packing for a specific application.

Our Packings are accompanied by Non-Asbestos Test Certificates, which can be provided upon request.



Grease Packing (CVS® 67)

CVS® 67 is a square braided packing manufactured from cotton yarns with tallow lubricant added on inner and outer surfaces.

Application: Suitable for general uses in dynamic services such as seawater, drinking water and low concentrations of acid and alkalis.

Product Features:

- Low-cost packing ideal for use in low responsibility general services
- Economical and an exceptional choice for water pumps
- Soft and flexible, easy handling



Grease Packing (CVS® 1900)

CVS® 1900 is a square braided packing manufactured from cotton yarns with tallow lubricant added on inner and outer surfaces.

Application: Suitable for general uses in dynamic services such as seawater, drinking water and low concentrations of acid and alkalis.

Product Features:

- Low-cost packing ideal for use in low responsibility general services
- Economical and an exceptional choice for water pumps
- Soft and flexible, easy handling



Ramie Packing (CVS® 426)

CVS® 426 is a premium quality ramie fiber packing, comes in square braided form impregnated with white grease as lubricant.

Application: An exceptional packing for use in dynamic applications such as centrifugal pumps, reciprocating type pumps, and stern tubes.

Product Features:

- Well-lubricated, maintains the shaft's quality in hydraulic systems
- Ideal for pumps requiring sludge, slit, and sand resistance
- Suitable for use with mildly corrosive chemicals such as oils, fats, water, weak solvents, and fuels



PTFE Ramie Packing (CVS® 426F)

CVS® 426F is a square braided premium quality ramie fiber packing with PTFE dispersion and white grease as lubricant.

Application: For use in dynamic applications such as centrifugal pumps, reciprocating type pumps, and stern tubes.

Product Features:

- This lubricated packing maintains the shaft's quality in hydraulic systems
- Ideal for pumps requiring sludge, slit, and sand resistance
- Suitable for use with mildly corrosive chemicals such as oils, fats, water, weak solvents, and fuels





High-Temperature Resistance
up to 260°C

Pure PTFE Packing (CVS® 4505)

CVS® 4505 is a square braided packing manufactured from pure PTFE filaments that have been impregnated with PTFE dispersion and lubricated with special heat-resisting agents.

Application: An exceptional packing for use in centrifugal pumps, reciprocating type pumps, turbines, agitators, mixers, and low pressure valves.

Product Features:

- High structural strength, good solvent and chemical resistance
- Ideal for use in extensive applications, especially when clean and non-contaminating packaging is needed
- Resistant to all media (pH 0-14) with the exception of molten or dissolved alkali metals and fluorine at particularly high temperatures and pressures
- Suitable for use with solvents, strong acids, and alkalis



Also Available:
Packing Hook Set

[More info under CVS® Packing & Jointing Tools](#)



Temperature Resistance
up to 80°C

Graphite PTFE Packing (CVS® 4507)

CVS® 4507 is a square braided packing manufactured from PTFE fibers that are blended with high-purity graphite, and impregnated with PTFE dispersion and a special lubricant.

Application: Ideal for strong acids, strong alkalis, gases, oil, chemicals, and solvent pump.

Product Features:

- High sealing performance
- Good chemical resistance
- High flexibility due to its interlocked braided structure



High-Temperature Resistance
up to 260°C

PTFE Synthetic Fiber Packing (CVS® 4508)

CVS® 4508 is a silicone-free square braided packing manufactured from acrylic fiber yarns with PTFE dispersion and a special lubricant.

Application: An exceptional packing for use in centrifugal pumps, reciprocating type pumps, turbines, agitators, mixers, and low pressure valves.

Product Features:

- Strong and versatile packing
- Low coefficient of friction provides a good seal for valves and pumps
- Good chemical resistance
- Suitable for use in most media



High-Temperature Resistance
up to 200°C

Universal Packing (CVS® 8022)

CVS® 8022 is a square braided hybrid packing manufactured from high-quality flax yarns, with added PTFE dispersion and running-in lubricant.

Application: For use in dynamic applications such as centrifugal pumps, reciprocating type pumps, and stern tubes.

Product Features:

- Well-lubricated, maintains the shaft's quality in hydraulic systems
- Ideal for pumps requiring sludge, slit, and sand resistance
- Suitable for use with mildly corrosive chemicals such as oils, fats, water, weak solvents, and fuels





PTFE Tank Lid Packing

CVS® PTFE Tank Lid Packing is a square braided packing manufactured from hollow-center elastomer core, and braided with propylene fibers and PTFE filaments.

Gases and liquids are protected against moisture by successive PTFE coatings, while the hollow-center elastomer core provides elasticity and compressibility to the packing. Packing can be welded together to form an endless seal due to a specially designed core.

Application: Suitable for static cargoes, chemical tanks, liquid transport oil tanks, ship-building, and tank trucks. The packing provides protection to the cargoes from sea-water ingress and prevent any environment contamination.

Product Features:

- Excellent compressibility
- Good mechanical strength and adaptability
- Resistant to a wide range of chemical products
- Resists constant cyclical changes



Aramid Fiber Kevlar Packing with PTFE (CVS® 4526)

CVS® 4526 is a square braided packing manufactured from high-strength and highly resistant discontinuous para-aramid fibers impregnated with PTFE dispersion and a special lubricant.

Application: Ideal for applications that require packings made of strong fibers. Suitable for seawater pump, bilge pump, fuel oil pump, as well as boiler water circulating pump and valve.

Product Features:

- Excellent abrasion, thermal, and mechanical resistance
- Flexible and excellent dimensional stability
- Recommended for water applications (up to 180°C without cooling), solvents, acids, liquified gases, and oils



Graphite Filled PTFE Packing With Kevlar Corner (CVS® 4529)

CVS® 4529 is a square braided hybrid packing manufactured from a combination of graphite filled PTFE and aramid yarns reinforcing the edges to prevent gap extrusion during high pressure and temperature conditions.

Application: For use in reciprocating pumps, mixers and high viscosity pumps.

Product Features:

- Good sliding properties and thermal conductivity
- Suitable for use with oil, water, alkali, solvent, and acid



Carbonized Fiber PTFE Packing (CVS® 6501)

CVS® 6501 is a square braided packing manufactured from carbonized fiber packing, and constructed by impregnating the fibers with PTFE dispersion and a special lubricant.

Application: Ideal for steam and gas installation, rotating equipment, and rotating valves.

Product Features:

- Versatile and high performance
- The carbon filament's high thermal conductivity allows for efficient heat dispersion at the stuffing box
- Resistant to a wide range of chemicals with exception of powerful oxidizers





High-Temperature Resistance
up to 1600°C

Graphite Ribbon Packing (CVS® 6650)

CVS® 6650 is a self-lubricating, low-friction pure graphite ribbon tape cut from graphite sheets, both sides corrugated.

Application: Suitable for various mediums including water, steam, oil, oil gas, solvents, heat transfer oil, LNG, strong acids, and alkalis. Not recommended for pump.

Product Features:

- Flexible enough to be wound and formed for any size valve stuffing box
- Capable in withstanding high pressures and temperatures
- Dimensionally stable and impervious to gases and fluids



Also Available:
Packing Hook Set

[More info under CVS® Packing & Jointing Tools](#)



High-Temperature Resistance
up to 650°C

Graphite Inconel Wire Packing (CVS® 6711)

CVS® 6711 is a square braided hybrid packing manufactured from high-purity expanded graphite ribbons.

The packing is reinforced with an inconel wire, with corners strengthened by high-quality carbon fiber yarns, and surface coated with graphite powder.

Application: Suitable for use in high-temperature and high-pressure valves, heat transfer oil valves, and soot blower air valves.

Product Features:

- Strengthened by carbon fiber yarns, it ensures an excellent extrusion stability and wear resistance
- Low coefficient of thermal expansion similar to steel
- High-temperature resistance
- High-electrical conductivity
- Resistant to a wide range of chemicals with exception of powerful oxidizers



High-Temperature Resistance
up to 650°C

Graphite Braided Packing (CVS® 6733)

CVS® 6733 is a square braided packing manufactured from high-purity expanded graphite ribbons with corners strengthened by high-quality carbon fiber yarns.

The packing is treated with special corrosion inhibitors containing low chloride content.

Application: Suitable for use in high-temperature and high-pressure pumps and valves, as well as boiler feed pumps and boiler circulation pumps.

Product Features:

- Low emission packing conductivity and resilience that remains unaffected by changes in temperature and pressure
- Resistant to a wide range of chemicals with exception of powerful oxidizers



High-Temperature Resistance
up to 650°C

Graphite Braided Packing (CVS® 8113)

CVS® 8113 is a square braided packing manufactured from high-purity expanded graphite ribbons with corners strengthened by high-quality carbon fiber yarns.

The packing is treated with special corrosion inhibitors containing low chloride content.

Application: Suitable for use in high-temperature and high-pressure pumps and valves. Ideal for a wide range of applications such as petrochemical plants, chemical and process plants, power plants, refineries, and boilers.

Product Features:

- Low emission packing conductivity and resilience that remains unaffected by changes in temperature and pressure
- Resistant to a wide range of chemicals with exception of powerful oxidizers





Gauge Glass for visual indication of liquid level

CVS® Gauge Glass is made of a high strength tempered glass that offers the greatest degree of visibility.

Application: For use in mechanical engineering, water engineering, and oil refining, provides a visual indication of the level of liquid in a tank, pressure vessel, or boiler.

Product Features:

- Corrosion resistance
- Extremely resistant to boiler water
- Provides absolute clear indication



Plain Flat Gauge Glass

CVS® Plain Flat Gauge Glass is a transparent and smooth gauge glass used to observe the liquid level of the boiler or other liquid tanks.



Reflex Flat Gauge Glass

CVS® Reflex Flat Gauge Glass is designed to make it easier to locate liquid levels. There are three longitudinal grooves printed on the glass. In water, grooves can increase the angle of refraction, allowing better visibility of the liquid level than without them.



Comes In
Set of two

Non-Asbestos Gasket for Gauge Glass

General-purpose flat gasket made of reinforced high-grade non-asbestos fibers and bonded with heat-resistant nitrile rubber. It has excellent anti-sticking properties on both sides, placed between the gauge glass and the main body of gauge glass to prevent liquid leakage.



Mica Gasket for Gauge Glass

Mica gasket protects gauge glass from corrosion of acids and bases, vapors, hot water, oils, etc. and reduces the risk of breakage due to impact and high temperature, thereby extending its service life.



Dust Holding Capacity:
385g/m²



Air Filter (White & Blue)

Polyester

A filter media needle and resin bonded with a progressive density structure and a distinctive hardened clean air surface to ensure a good depth filtration.

Application: Used for air intake as a pre-filter mat or roll filter where the demand on filtration degree is average. Can be used for FCU, AHU, and other HVAC System in pleated or flat sheet.

Product Features:

- High dust load
- Media compression will take place when pressure exceeds 250Pa
- Good wash-resistance
- Low initial pressure drop



Dust Holding Capacity:
156g/m²



Air Filter (White)

Polyester

A filter media needle and resin bonded with a progressive density structure and a distinctive hardened clean air surface to ensure a good depth filtration.

Application: Used for air intake as a pre-filter mat or roll filter where the demand on filtration degree is average. Can be used for FCU, AHU, and other HVAC System in pleated or flat sheet.

Product Features:

- High dust load
- Media compression will take place when pressure exceeds 250Pa
- Good wash-resistance
- Low initial pressure drop



Oil Filter Sponge

Vinyl Acetate

Synthetic made sponge filter designed for removing contaminants from engine oil, transmission oil, lubricating oil or hydraulic oil.

Application: Suitable for use on engines, hydraulic systems, light aircraft, vessels, and vehicles.

Product Features:

- Lightweight
- Flexible and durable
- Quick drying



Water Filter Sponge

Vinyl Acetate

Synthetic made sponge filter ideal for immersion in any cascade tank or sump for filtering of hydraulic systems, coolant fluids, etc.

Application: Suitable for use on engines, hydraulic systems, light aircraft, vessels, and vehicles.

Product Features:

- Lightweight
- Flexible and durable
- Quick drying



Water Filter Sponge

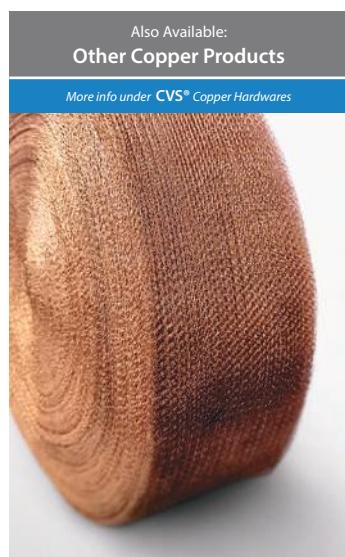
Vinyl Acetate

Synthetic made sponge filter ideal for immersion in any cascade tank or sump for filtering of hydraulic systems, coolant fluids, etc. Comes packed in 1Kg pieces.

Application: Suitable for use on engines, hydraulic systems, light aircraft, vessels, and vehicles.

Product Features:

- Lightweight
- Flexible and durable
- Quick drying



Also Available: Other Copper Products

[More info under CVS® Copper Hardwares](#)

Copper Wool Filter

Made of wool-like fine copper and woven into flat tubes. Finely meshed net can strain out and refine lubricating oil or any other liquid.

Application: Serves as a filter of oil, gas, and water. Ideal for use in replacing the copper mesh in ship's turbocharger filter. Can also be used as a scrubber for cleaning the inside and outside of mechanical parts.

Product Features:

- High strength
- Firm structure
- Never rust
- Non-flammable
- Resistant to disintegration
- Reusable
- Long service life





CVS® PTFE Products

- PTFE Sealing Products & Tapes
- PTFE Sheets / Rounds
- PTFE Gaskets

We offer filled and unfilled PTFE gasketing materials, gaskets, sealing products, and PTFE parts customization.

PTFE is a vital material in the marine industry due to its corrosion resistance, moisture resistance, tolerance of extreme temperatures, and low friction properties. This enhances the durability, efficiency, and safety of marine components, ensuring smoother and more reliable operations.

CVS® offers a diverse range of PTFE products such as cord, joint sealant, seal tape, electrical tape, rod, sheet, and gaskets. We also provide PTFE industrial parts fabrication services to meet a wide array of needs.



PTFE Cord

CVS® PTFE Cord is a round gasket cord made from 100% pure, expanded PTFE with a modified structure, it has very good adaptability to shafts and flange surfaces, and a very low sliding friction.

Application: Used in valves stuffing boxes, usually for the smaller valves throughout general industry, as well as for sealing pipe flanges and other irregular shaped faces.

Product Features:

- High-temperature resistance
- Excellent chemical resistance
- High mechanical properties
- Low coefficient of friction

Ideal Application



PTFE Joint Sealant

CVS® Joint Sealant is a soft, compressible gasket material made of 100% pure, expanded PTFE.

Application: A form-in-place gasket which conforms to almost any flat or serrated sealing surface. Upon compression, it forms a thin, hard ribbon that fills surface irregularities and creates an extremely tight seal. Comes with adhesive strip for easy installation.

Product Features:

- High-temperature resistance
- Excellent chemical resistance
- High mechanical properties
- Low coefficient of friction

Ideal Application



PTFE Seal Tape

CVS® PTFE Seal Tape replaces the conventional pipe joint compound and hardening sealants, and can be used on all pipe materials.

Application: Suitable for sealing threaded plugs on engines, fuel lines, transmission pans and lines, air conditioning units, radiators, fuel tanks, vacuum lines, coolant lines, brake lines, and hydraulic systems.

Product Features:

- High-temperature resistance
- Excellent chemical resistance
- Compatible with all chemicals, acids, alkalis, solvents, and gases (include oxygen)
- Easy to use
- Instant sealing



PTFE Electric Tape

CVS® PTFE Electric Tape is made of PTFE coated fiberglass fabric and silicone adhesive.

Application: Ideal for hot melt machine, motor, high and low voltage electrical products, as well as for wires and cables insulation protection.

Product Features:

- Excellent electrical insulation
- Excellent thermal insulation
- Non-stick smooth PTFE surface with low coefficient of friction
- Resistance to various chemical corrosion
- Anti-static





High-Temperature Resistance
up to 260°C

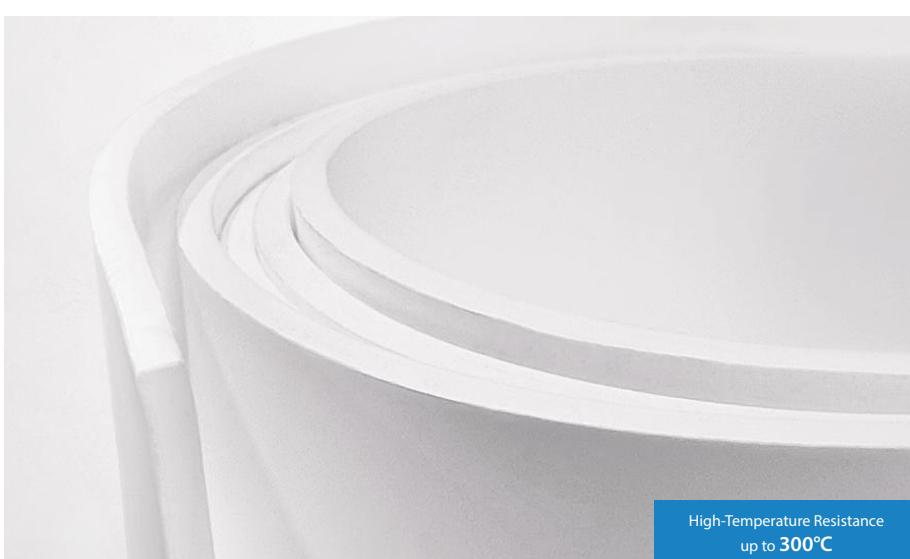
PTFE Sheet Mechanical Grade

CVS® PTFE Sheet is a mechanical grade gasket material manufactured from a combination of virgin PTFE and reprocessed PTFE. It is a cost-effective alternative to virgin grade, particularly recommended for applications in industrial and process industries where high purity materials are not required. Mechanical grade PTFE has similar chemical and tribological properties as virgin PTFE, but has better wear resistance and compressive strength than virgin PTFE.

Application: Ideal for a wide range of applications such as seals and gaskets, valve and fitting components, pump parts, manifolds, semi-conductor equipment, scientific equipment, medical equipment, chemical resistant tubing, and for bearing and bushings.

Product Features:

- High-temperature resistance
- Excellent chemical resistance
- Anti-aging, weathering resistance
- High electrical insulation
- Low coefficient of friction
- Cost-effective alternative to virgin grade



High-Temperature Resistance
up to 300°C

Expanded PTFE Sheet (Low Creep) (CVS® FL2000)

CVS® FL2000 is a soft, conformable material with cold flow properties that has been improved by mixing organic filler with it using a special manufacturing technique.

Application: Ideal for use in pipelines handling all type of chemical products such as highly concentrated hot sulfuric and nitric acids. Cannot be used with sodium hydroxide or other highly concentrated alkalis and hydrofluoric acid.

Product Features:

- High-temperature resistance
- High anti-creeping and acid-resistance properties
- Very low cold-flow tendency
- Easy to cut, punch and plotter



Operating Temperature
range from -80°C to 180°C

PTFE Sheet (Carbon Filled)

A joint sheet composed of PTFE, mixed with carbon filler.

Application: Suitable for general fluids (water, steam, oil, etc.), solvents, corrosive liquids (especially alkali liquid), liquefied gases, cryogenic fluids. It may be used on pipes, valve bonnets, towers, and tanks.

Product Features:

- High temperature resistance
- Excellent chemical resistance
- Excellent anti-cold flow properties
- Very low coefficient of friction





Custom PTFE Parts Fabrication Services

Parts manufactured using PTFE (Polytetrafluoroethylene) exhibit high impact strength, wear resistance, and durability coupled with an extremely low friction. In addition, they are heat, moisture, chemical, and radiation resistant.

Industrial parts we can fabricate: O-rings, seat rings, and gaskets.

Just send us your requirements.



Let Us Help



High-Temperature Resistance
up to 260°C

PTFE Envelope Gasket (V-Type)

A V-shaped pure PTFE envelope, it is used with an insert material to form an envelope gasket. The main advantage of an envelope gasket is that it gives the strength and characteristics of the core material along with the properties of PTFE.

Application: Mainly applied as a flange gasket in applications where a high chemical and high pressure resistance is required.

Product Features:

- High-temperature resistance
- Extreme chemical resistance
- Anti-aging, weathering resistance
- Excellent electrical insulation
- Very low coefficient of friction



CVS® offers custom fabrication of insert material to suit your application. The choice of insert material for the PTFE envelope depends on the pressure resistance required.



PTFE Round

Standard-grade PTFE rod with a slippery surface. It has exceptional chemical resistance, and provides excellent electrical insulation.

Application: Suitable for making valves, manifolds, bearings and bushings, and scientific equipment.



PTFE Full Face Gasket

Mechanical grade PTFE full face gasket for sealing raised flanges, has a specified number of holes for bolts to pass through, easing alignment and clamping, and fills gap between the bolting surfaces.

Joint must be completely disassembled for installation.

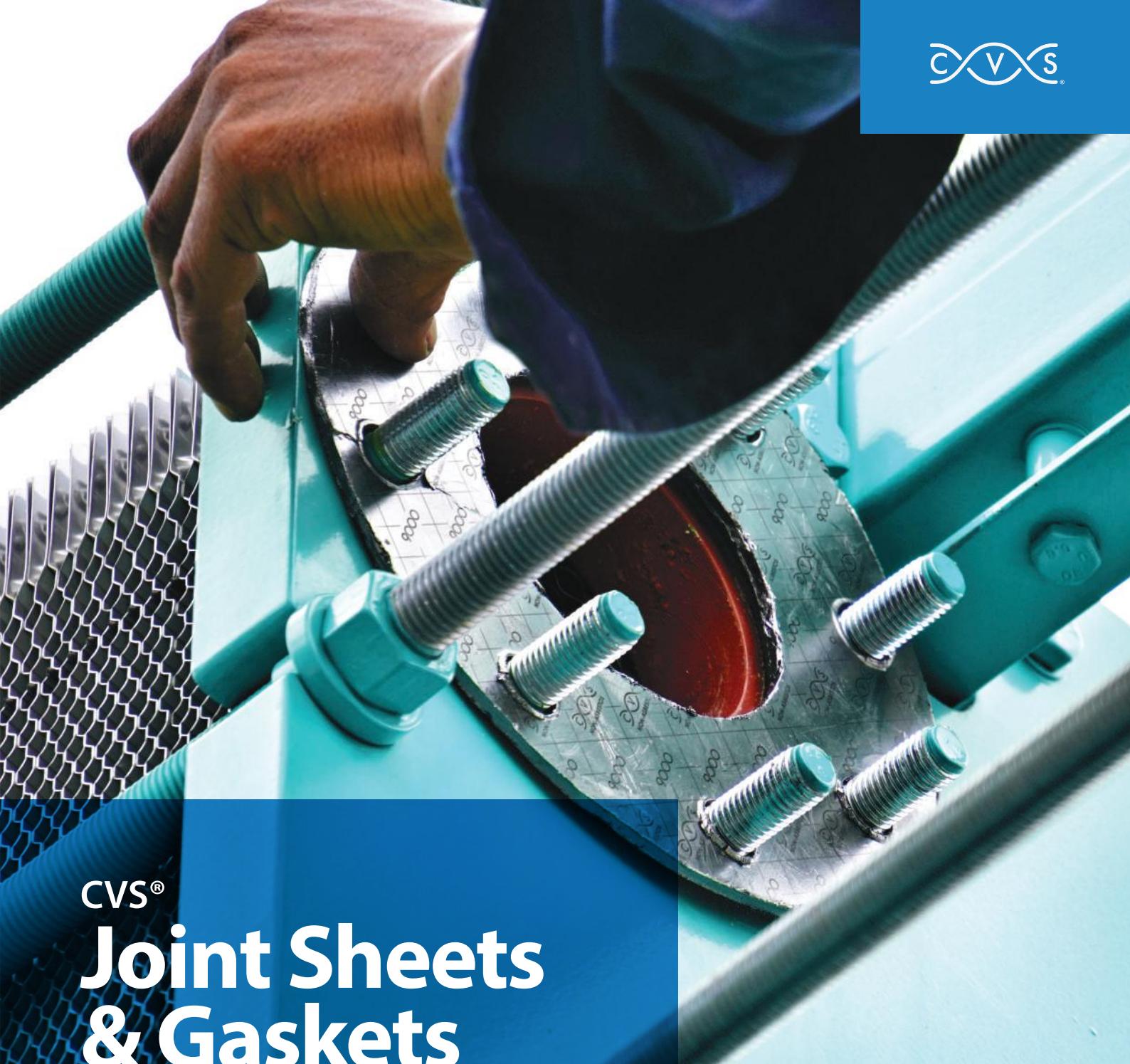


PTFE Ring Face Gasket

Mechanical grade PTFE ring face gasket seals over a smaller area than full face designs and apply higher compressive loads for a given bolt tightness. Requires less material and less cutting.

Can be installed without completely disassembling the joint.





CVS®

Joint Sheets & Gaskets

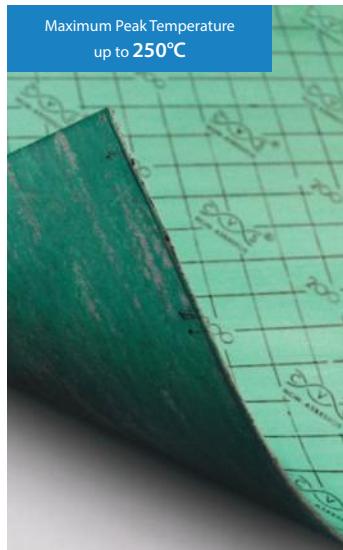
- Non-Asbestos Joint Sheets
- Non-Metallic Gaskets
- Semi-Metallic Gaskets

We offer non-asbestos joint sheets and professional cut gasket services, as well as spiral wound gaskets.

Besides our own CVS® brand, we also supply Ferolite® and Guamotor® joint sheets.

We offer a diverse range of joint sheets, including compressed fiber, graphite, wire-reinforced, vegetable oil, cork, and felt, ensuring you can find the ideal material for your specific needs in various industrial and mechanical applications.

Our Jointing Sheets are accompanied by Non-Asbestos Test Certificates, which can be provided upon request.

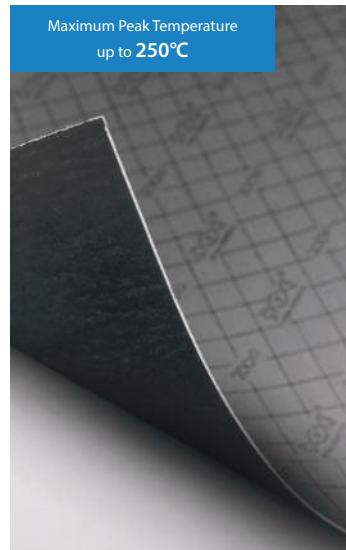


Maximum Peak Temperature
up to 250°C

Non-Asbestos Joint Sheet (CVS® 200)

CVS® 200 is a water and oil resistant joint sheet composed of organic fiber, mineral fiber, NBR fiber, and high-quality elastomers.

Application: Suitable for light to medium loadings, low operating pressures such as transformers, compressors, valve covers, and oil pans in internal combustion engines.

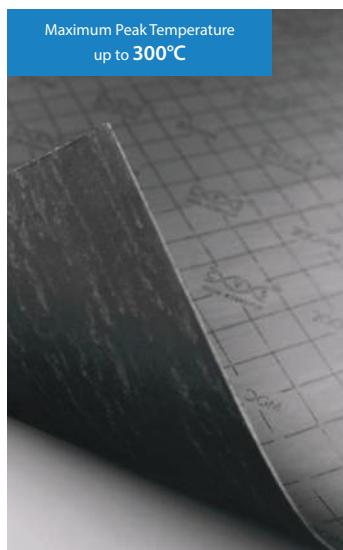


Maximum Peak Temperature
up to 250°C

Non-Asbestos Graphited Joint Sheet (CVS® 200G)

CVS® 200G is a one side graphited joint sheet composed of organic fiber, mineral fiber, NBR fiber, and high-quality elastomers. This joint sheet is water and oil resistant.

Application: Suitable for light to medium loadings, low operating pressures such as transformers, compressors, valve covers, and oil pans in internal combustion engines.

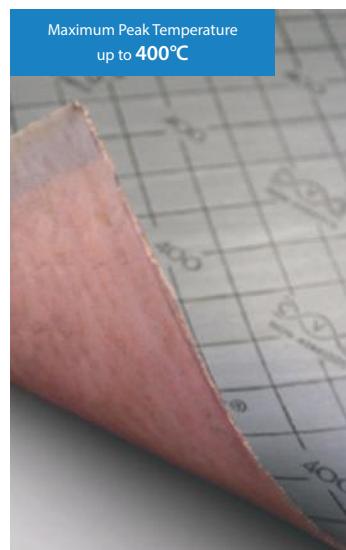


Maximum Peak Temperature
up to 300°C

Non-Asbestos Wire Reinforced Graphited Joint Sheet (CVS® 200GM)

CVS® 200GM is a one side graphited joint sheet composed of cellulose fiber, organic fiber, NBR, and a metal gauge centre. This joint sheet is water and oil resistant.

Application: Suitable for light to medium loadings, low operating pressures such as transformers, compressors, valve covers, and oil pans in internal combustion engines.

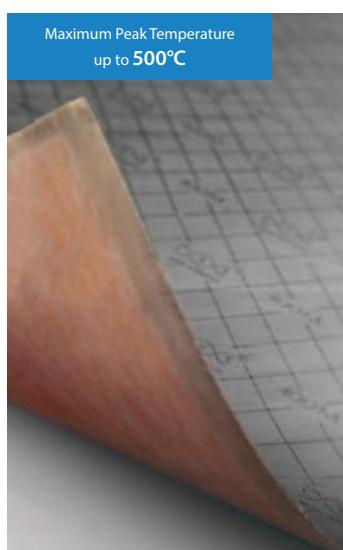


Maximum Peak Temperature
up to 400°C

Non-Asbestos High-Temperature Graphited Joint Sheet (CVS® 400)

CVS® 400 is a one side graphited joint sheet composed of aramid fiber, mineral fiber, and inorganic fillers. This joint sheet is resistant to water, gases, oils, and fuels.

Application: Suitable for medium to higher loading such as compressors, pipelines, transmission, gas meters, and internal combustion engines.



Maximum Peak Temperature
up to 500°C

Non-Asbestos High-Temperature Wire Reinforced Graphited Joint Sheet (CVS® 400M)

CVS® 400M is a one side graphited joint sheet composed of aramid fiber, mineral fiber, and a metal gauge centre. This joint sheet is resistant to water, gases, oils, and fuels.

Application: Suitable for medium to higher loading such as compressors, pipelines, transmission, gas meters, and internal combustion engines.



Maximum Peak Temperature
up to 400°C

Non-Asbestos Joint Sheet (CVS® 700CF)

CVS® 700CF joint sheet is specifically designed to resist numerous aggressive chemicals. This joint sheet is composed of aramid fiber and carbon fiber, it exhibits excellent resistance to steam and strong alkaline, as well as good sealing and torque retention.

Application: Widely used in chemical and petrochemical industries. Additionally, it can seal oil, fuel, gases, freons, and be used in pipelines, radiators, boilers, and many other flanged joints in the paper and pulp industry.





Maximum Peak Temperature
up to 650°C

Expanded Graphite Joint Sheet (CVS® 9000)

CVS® 9000 is a joint sheet composed of high purity expanded mineral graphite laminated.

Application: Suitable for use with pipe flanges and other types of applications that require gaskets with high thermal resistance and medium pressure.



Maximum Peak Temperature
up to 650°C

Expanded Graphite Joint Sheet With Stainless Steel Metal Foil Insert (CVS® 9000R)

CVS® 9000R is a joint sheet composed of high purity expanded mineral graphite laminated with 316 smooth stainless steel insert.

Application: Suitable for use with pipe flanges and other types of applications that require gaskets with high thermal resistance and medium pressure.



Maximum Peak Temperature
up to 400°C

Non-Asbestos High-Temperature Graphited Joint Sheet (Ferolite® NAM 30)

Ferolite® NAM 30 is a one side graphited joint sheet composed of aramid fiber, mineral fiber, and NBR binder. This joint sheet is oil resistant, with good resistance to water, gases, oils, and fuels.

Application: Suitable for medium to higher loadings such as compressors, pipelines, transmission, gas meters, and internal combustion engines.



Maximum Peak Temperature
up to 500°C

Non-Asbestos High-Temperature Wire Reinforced Graphited Joint Sheet (Ferolite® NAM 30 Steel)

Ferolite® NAM 30 Steel is a one side graphited joint sheet composed of aramid fiber, mineral fiber, NBR binder, and a metal gauge centre. This joint sheet is oil resistant, with good resistance to water, gases, oils, and fuels.

Application: Suitable for medium to higher loadings such as compressors, pipelines, transmission, gas meters, and internal combustion engines.



Maximum Peak Temperature
up to 200°C

Non-Asbestos Joint Sheet (Ferolite® NAM 49)

Ferolite® NAM 49 is a water and oil resistant joint sheet composed of cellulose fiber, organic fiber, and mineral fiber, and high-quality elastomers.

Application: Suitable for light to medium loadings, low operating pressures such as transformers, compressors, valve covers, and oil pans in internal combustion engines.



Maximum Peak Temperature
up to 250°C

Non-Asbestos Wire Reinforced Graphited Joint Sheet (Ferolite® NAM 49 Steel)

Ferolite® NAM 49 Steel is a one side graphited joint sheet composed of cellulose fiber, NBR, and organic fiber with a metal gauge centre. This joint sheet is water and oil resistant.

Application: Suitable for light to medium loadings, low operating pressures such as transformers, compressors, valve covers and oil pans in internal combustion engines.





Non-Asbestos Joint Sheet (Ferolite® NAM 45CF)

Ferolite® NAM 45CF joint sheet is specifically designed to resist numerous aggressive chemicals used by industry today. This joint sheet is composed of aramid fiber, carbon fiber, and NBR binder. It exhibits excellent resistance to steam and strong alkaline, as well as good sealing and torque retention.

Application: Widely used in chemical and petrochemical industries. Additionally, it can seal oil, fuel, gases, freons, and be used in pipelines, radiators, boilers, and many other flanged joints in the paper and pulp industry.



PTFE Sheet (Carbon Filled)

A joint sheet composed of PTFE, mixed with carbon filler. It possesses a high temperature resistance, excellent chemical resistance and anti-cold flow properties, as well as a very low coefficient of friction.

Application: Suitable for general fluids (water, steam, oil, etc.), solvents, corrosive liquids (especially alkali liquid), liquefied gases, cryogenic fluids. It may be used on pipes, valve bonnets, towers, and tanks.



Vegetable Fiber Oil Proof Joint Sheet (GUAMOTOR® 33G)

GUAMOTOR® 33G oil proof joint sheet is composed of cellulosic fiber with animal glue and plasticizer.

Application: General purpose with good mechanical resistance and good compressibility. Used for sealing of oil and fuel on flange and flat surfaces.



Cortex Joint Sheet

Cortex joint sheet is composed of cork and mixed with oil resistant rubber that is suitable for general sealing purposes.

Application: Typically used as a gasket for oil pumps, crank cases, transmission covers, gasoline pumps, oil drums and water.

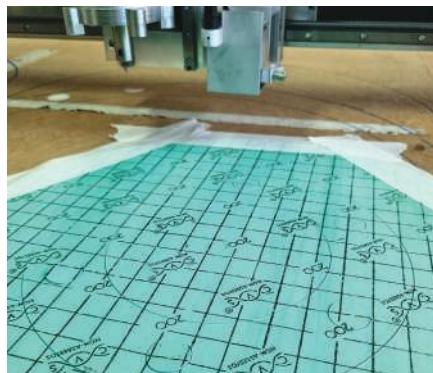


Felt Sheet

Felt joint sheet is a pressed, white, sheep wool that is formed into a sheet. It is used for filling or stopping of oil due to its high oil absorbency.

Application: Suitable for oil absorption, packing, crafts, sealing, hard washers, casters, bumpers and polishing heads.





Cut Gasket Fabrication Services

Our gaskets are manufactured to International specifications such as ASME, DIN, and JIS. We cut gaskets from a diverse range of joint sheets, including non-asbestos compressed fiber, graphite, wire-reinforced, and vegetable oil to your exact shapes and sizes. We can also fabricate custom gaskets based on your needs, such as non-asbestos gaskets with stainless steel wire mesh.

Just send us your requirements.



Let Us Help



Non-Asbestos Ring Face Gasket (CVS® 200)

CVS® 200 ring face gasket seals over a smaller area than full face designs and apply higher compressive loads for a given bolt tightness. Requires less material and less cutting. Can be installed without completely disassembling the joint.



Non-Asbestos Full Face Gasket (CVS® 200)

CVS® 200 full face gasket for sealing raised flanges, has a specified number of holes for bolts to pass through, easing alignment and clamping, and fills gap between the bolting surfaces. Joint must be completely disassembled for installation.



Non-Asbestos Ring Face Gasket (Ferolite® NAM 49)

Ferolite® NAM 49 ring face gasket seals over a smaller area than full face designs and apply higher compressive loads for a given bolt tightness. Requires less material and less cutting. Can be installed without completely disassembling the joint.



Non-Asbestos Full Face Gasket (Ferolite® NAM 49)

Ferolite® NAM 49 full face gasket for sealing raised flanges, has a specified number of holes for bolts to pass through, easing alignment and clamping, and fills gap between the bolting surfaces. Joint must be completely disassembled for installation.



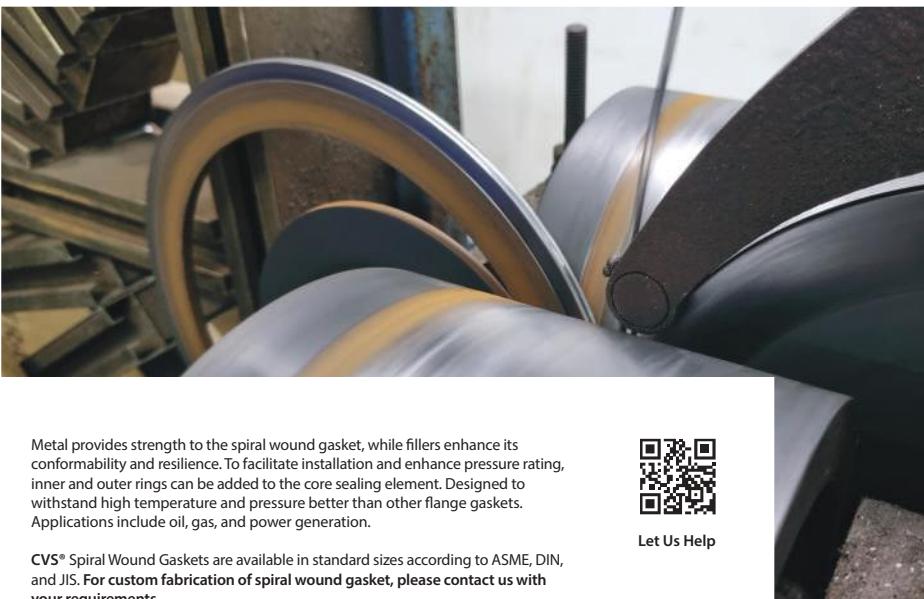
Vegetable Fiber Oil Proof Ring Face Gasket (Guamotor®)

Guamotor® Vegetable Oil ring face gasket seals over a smaller area than full face designs and apply higher compressive loads for a given bolt tightness. Requires less material and less cutting. Can be installed without completely disassembling the joint.





Ideal Application



Spiral Wound Gasket and Fabrication Service

Metal provides strength to the spiral wound gasket, while fillers enhance its conformability and resilience. To facilitate installation and enhance pressure rating, inner and outer rings can be added to the core sealing element. Designed to withstand high temperature and pressure better than other flange gaskets. Applications include oil, gas, and power generation.

CVS® Spiral Wound Gaskets are available in standard sizes according to ASME, DIN, and JIS. For custom fabrication of spiral wound gasket, please contact us with your requirements.



Let Us Help



PTFE filler material is available for custom order of spiral wound gasket.

Characteristics of PTFE:
Maximum temperature resistance of 260°C, excellent chemical resistance, resistant to ageing, and excellent gas-tightness.



Spiral Wound Gasket ('IOR' Type)

Stainless Steel 316L Rings

CVS® 'IOR' Type Spiral Wound Gasket with Stainless Steel 316L inner and outer rings. This gasket has the best sealing characteristics combined with the highest safety for flanged joints with flat face and raised face flanges.



Spiral Wound Gasket ('OR' Type)

Stainless Steel 316L Ring

CVS® 'OR' Type Spiral Wound Gasket with Stainless Steel 316L outer ring. Solid outer ring accurately locates the gasket on the flange face which provides additional radial strength to prevent gasket blowout and acts as a compression limiter. Suitable for use with flat face and raised face flanges.



Spiral Wound Gasket ('IOR' Type)

Carbon Steel Rings

CVS® 'IOR' Type Spiral Wound Gasket with Stainless Steel 316L inner and outer rings. This gasket has the best sealing characteristics combined with the highest safety for flanged joints with flat face and raised face flanges.

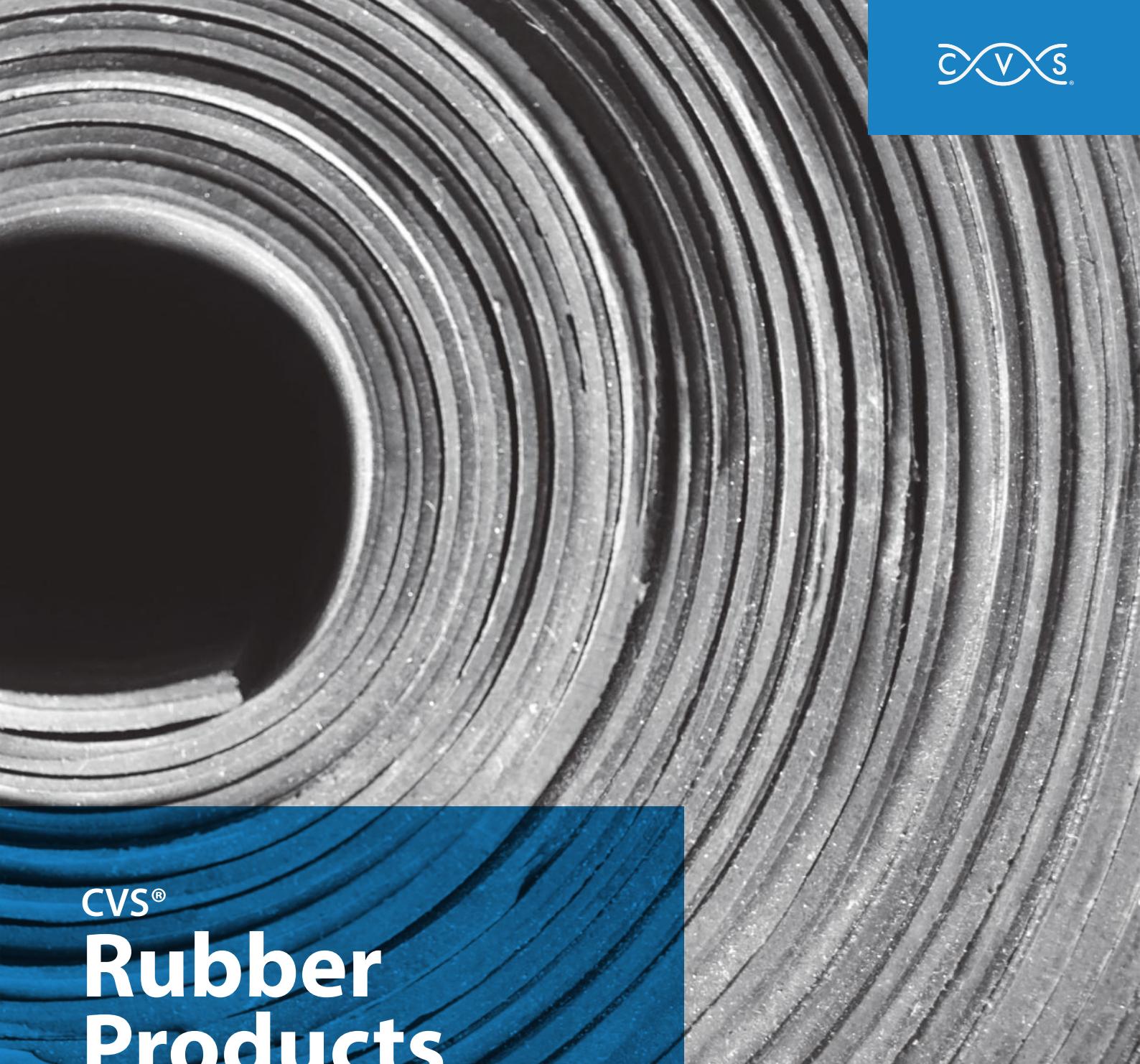


Spiral Wound Gasket ('OR' Type)

Carbon Steel Ring

CVS® 'OR' Type Spiral Wound Gasket with Stainless Steel 316L outer ring. Solid outer ring accurately locates the gasket on the flange face which provides additional radial strength to prevent gasket blowout and acts as a compression limiter. Suitable for use with flat face and raised face flanges.





CVS®

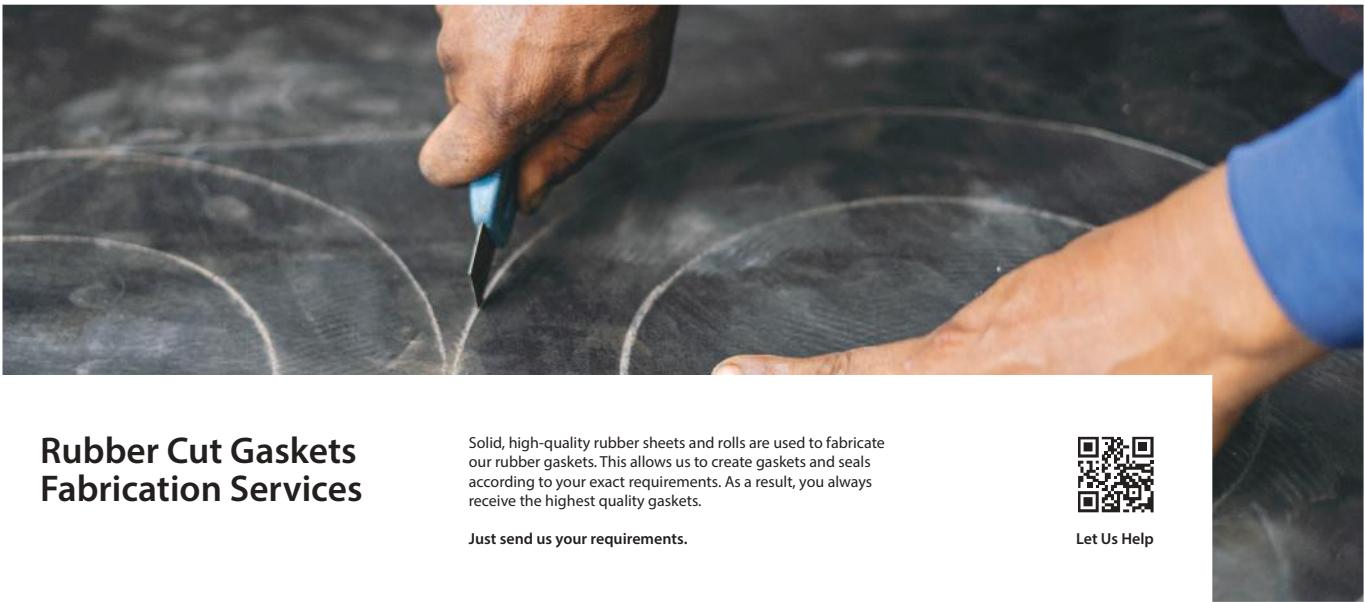
Rubber Products

- **Rubber Sheets / Gaskets**
- **Rubber Hardwares**
- **Rubber Hatch Packings**
- **Anti-Slip Floor Mats**

We offer a wide range of rubber products, spanning from sheets to essential sealing components and slip-resistant mats.

Our wide-ranging selection of rubber products includes sheets, gaskets for flexible pipe couplings, O-ring kits, cords, hatch cover packings, electrical insulation mats, and slip-resistant mats.

These products cater to diverse industrial and marine needs, offering solutions for sealing, insulating, protecting, and enhancing safety.



Rubber Cut Gaskets Fabrication Services

Solid, high-quality rubber sheets and rolls are used to fabricate our rubber gaskets. This allows us to create gaskets and seals according to your exact requirements. As a result, you always receive the highest quality gaskets.

Just send us your requirements.



Let Us Help



Rubber Sheet

CVS® Rubber Sheet are generally, black in color, they exhibit excellent physical properties such as high mechanical strength and tear resistance.

- **Natural Rubber Application:**

Usually used for pipe flanges or cover gaskets where gas, hot or cold water, diluted solutions, low pressures, and service steam are present.

- **Synthetic Rubber Application:**

Usually used for pipe flanges serving petroleum solvents, heavy or light oils, and animal or vegetable oils.





(Neoprene) Rubber Sheet

CVS® (Neoprene) Rubber Sheet is a synthetic material that offers excellent resistance to aging, ozone and weathering. Additionally, it has a high temperature and flame resistance, anti-vibration properties, as well as good resistance to oil and petroleum based products including a range of fuels, greases, solvents and hydraulic fluids. It will also display moderate chemical resistance to acids and alkalis.

Application: Primarily for use as a flexible strip, pad, gasket or lining. Ideal for use in underground mining and other applications where ignition points and fire potential are a high risk. Also suitable with weathering, sea water, mineral oils, and grease applications.

Not suitable for applications requiring resistance to aliphatic and aromatic hydrocarbons and ketones.

- Bearing pads and strips
- Chassis rubbers
- Load matting
- Critical construction seals
- Expansion joints
- Dust sealing curtains and skirts
- Oil-resistant skirting rubber
- Flange gaskets and seals
- Anti-vibration mounts
- Transfer and join sleeves
- Insulating strip
- Isolation barriers



(NBR) Sponge Rubber Sheet

CVS® (NBR) Sponge Rubber Sheet is manufactured with continuous skin on both sides, which makes it tougher and more tear-resistant. Air or fluid cannot pass between cells if the sheets are punctured or cut. It is highly compressible, resilient, light in weight, and provides effective thermal insulation.

Application: Suitable for soft compressible gaskets requiring oil and U.V resistance.



(NBR) Rubber Sheet

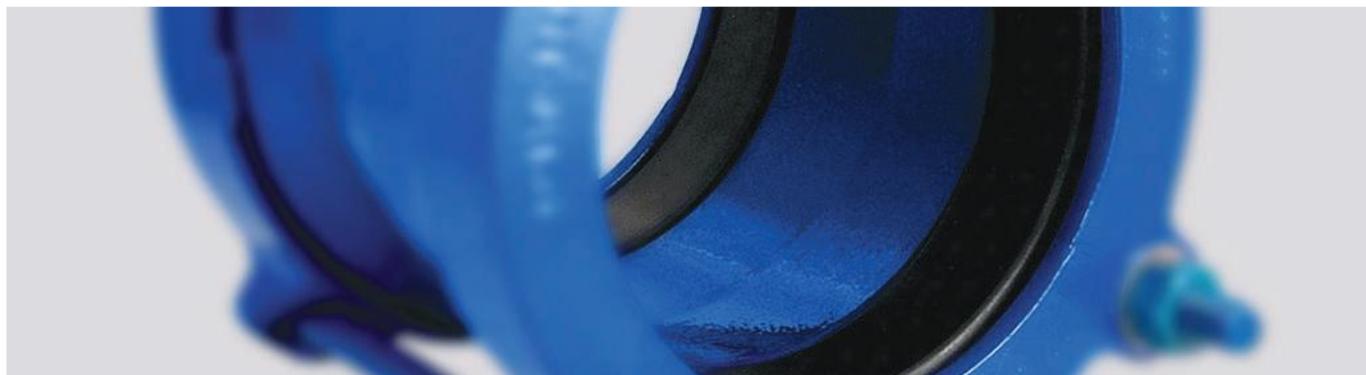
CVS® (NBR) Rubber Sheet is a synthetic material resistant to any kind of fuel and oil, especially petroleum-based and mainly includes petrol, LPG, and diesel. They also have low gas permeability and exhibit some of the best resistance to oils and greases.

NBR offers moderate mechanical properties and has satisfactory resistance to aromatic hydrocarbons, but is not suitable for use with ketones.

Application: Ideal for use in industries where there is regular contact with petroleum-based fluids.

- Flange gaskets on pipes and tanks
- Lining of pipes and tanks
- Transfer and joining sleeves
- Oil and fuel seals
- Camlock washers
- Insulating strip
- Isolation barriers
- Oil resistant skirting rubber





Spare Rubber Gaskets for flexible pipe couplings

Note: When ordering spare gaskets for the flexible pipe couplings, please specify the manufacturer's name, model and the size of the flexible coupling currently in use, along with the name, temperature, and pressure of the line content, etc.



Let Us Help



(NBR) Rubber Gasket

For Flexible Pipe Couplings

Recommended For:

- General Purpose Sealing
- Water
- Petroleum Oils and Fluids
- Silicone Greases and Oils
- Di-Ester Base Lubricants
- Ethylene Glycol Base Fluids

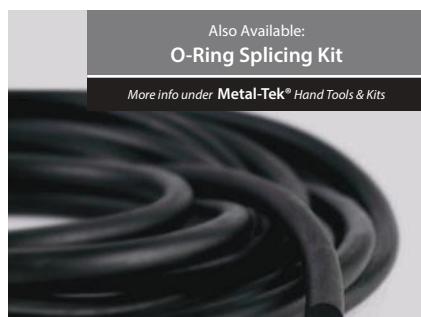


(FKM) Rubber Gasket

For Flexible Pipe Couplings

Recommended For:

- Petroleum Oils
- Di-ester Base Lubricants
- Silicate Ester Base Lubricants



Also Available: O-Ring Splicing Kit

More info under **Metal-Tek® Hand Tools & Kits**

(NBR) Rubber String

Has good mechanical properties with excellent resistance to petroleum oils, minerals as well as vegetable oils.

Application: Ideal for use in aerospace, automotive, electrical, and o-ring-making applications.



Rubber O-Ring Kit

An assortment of rubber O-Rings for any oil, hydraulic, air, gas and water seal applications.

Available In:

- 18 Sizes / 225 Pc (NBR)
- 30 Sizes / 382 Pc (NBR / Viton)



Also Available: Copper Washer Kit

More info under **CVS® Copper Hardwares**

Bonded Seal Kit

Synthetic rubber sealing member bonded with heat and pressure to a zinc plated steel washer. Suitable for mineral oil, water, gases and many other fluids.

Available In:

- 13 Sizes / 230 Pc



CVS®

Rubber Hatch Packings

EPDM | NBR | Neoprene

Hatch packings are used in various door sealing applications for achieving weather-tightness and sealing.



When it comes to selecting the appropriate rubber hatch packing for your specific application, we understand the importance of tailoring your choice to meet the unique demands of your environment and operational requirements.

That's why we offer three distinct options to cater to diverse needs:

General-Purpose Use: (EPDM) Rubber
Gas & Oil Resistance: (NBR) Rubber
Ozone Resistance & High-Temperature Use: (Neoprene) Rubber



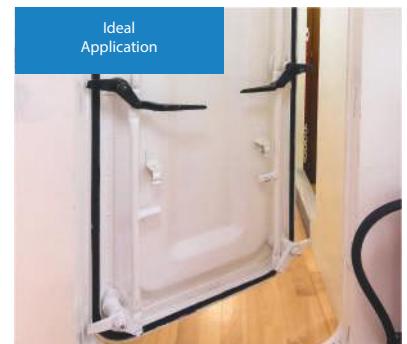
(EPDM) Rubber Watertight Hatch Packing

CVS® (EPDM) Rubber Watertight Hatch Packing has closed-cell structures that form airtight and watertight seals using minimal rates of compression. This serves to increase the life expectancy of the material in physically demanding applications.

Application: Ideally used for hatch door seals on sea vessels.

Benefits of (EPDM) Rubber

- Resistant to ozone degradation
- Resistant to sea water, high temperatures and extreme weather conditions
- Superior colour stability and dielectric ability



(NBR) Rubber Oiltight Hatch Packing

CVS® (NBR) Rubber Oiltight Hatch Packing (2-side tapered) is strong, durable, and has superb oil resistance.

Application: Ideally used for oil tank hatch cover seals on sea vessels.

Benefits of (NBR) Rubber

- Large working temperature range
- Oil and hydrocarbon fuel resistant
- Resistant to fats, oils, greases and chemicals



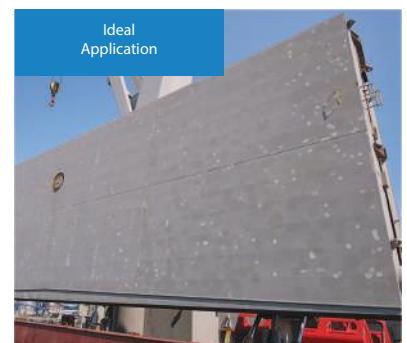
(Neoprene) Rubber Cargo Hatch Packing

CVS® (Neoprene) Rubber Cargo Hatch Packing consists of a solid rubber outer on 3 sides and a cellular sponge core bonded to the solid rubber outer faces. The cellular core is purpose-made for this product and offers excellent compression recovery.

Application: Ideally used for cargo hatch and door seals on sea vessels.

Benefits of (Neoprene) Rubber

- Resists damage from sun, ozone, weather, extreme temperature, and flexing or twisting
- Moderate oil resistant
- Ammonia resistant





CVS®

Anti-Slip Floor Mats

- Electrical Insulation Mats
- Rubber Deck Mat, and more

Trusted protection for your workers from slipping hazards, as well as electric currents in high voltage environments.

Our high-quality rubber compound safety mats can be used as an insulation layer in transformers, electrical distribution stations and switchboards that work with high voltages.

We supply a broad selection of matting ranging from 7.5kV to 50kV, you are sure to find one that fits your needs.



CVS® Electrical Insulation Mats with Test Cert

Black electrical insulation mats made from compressed natural rubber, tested and stamped according to ASTM D178-01. Come with fine ribbed surface for slip resistance.

Application: Marine industries, construction sites, industrial gasketing, underlayment, chemical resistant applications, laboratory equipment protection, and general use.

Available in (Withstand Voltage):

- CVS® 3-10 (10kV), Size: 3mm x 1m x 10m
- CVS® 3 (17kV), Size: 3mm x 1m x 10m
- CVS® 4 (24kV), Size: 4mm x 1m x 10m
- CVS® 6 (35kV), Size: 6mm x 1m x 5m
- CVS® Max (43kV), Size: 10mm x 1m x 5m



MD570

Grey electrical insulation mat tested and stamped according to IEC 61111 Class 0. Come with fine ribbed surface for slip resistance.

Size: 3mm x 1m x 10m



MD550

Black electrical insulation mat tested and stamped according to BS921/1976 British Standard. Come with fine ribbed surface for slip resistance.

Size: 9.5mm x 1m x 10m



CVS® ELC4

Black electrical insulation mat tested and stamped according to ASTM D178-01. Come with fine ribbed surface for slip resistance.

Size: 4mm x 1m x 10m



CVS® HV20

Grey and green electrical insulation mats tested and stamped according to ASTM D178-01. Come with fine ribbed surface for slip resistance.

Size: 3mm x 1m x 10m



DEK2-S7-1

Grey electrical insulation mat tested and stamped according to IEC 61111 Class 2. Come with fine ribbed surface for slip resistance.

Size: 3mm x 1m x 10m

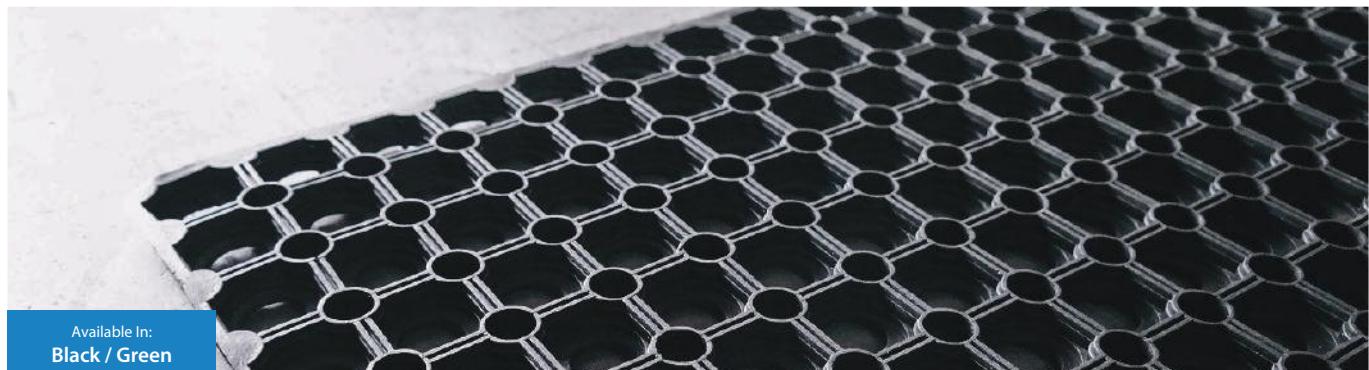


DEK4-S7-1

Grey electrical insulation mat tested and stamped according to IEC 61111 Class 4. Come with fine ribbed surface for slip resistance.

Size: 4.5mm x 1m x 10m





Rubber Deck Mat

Safe and anti-slipping under wet conditions

CVS® Rubber Deck Mat is made of durable, impact-resistant rubber with corrugated pads that cushion one's feet while working. A self draining anti-slip mat that is suitable for heavy transit areas.

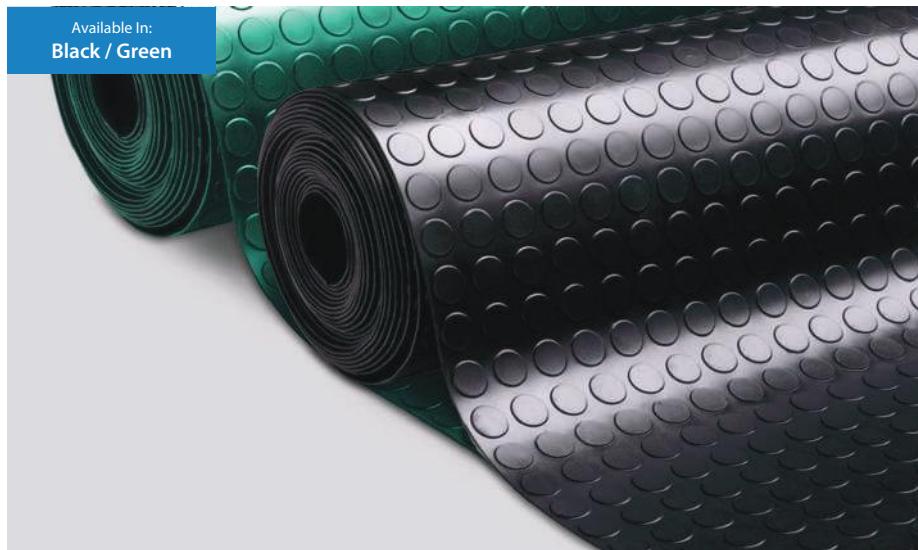
Application: For wet work areas, such as ship's gallery or deck.

Size: 16mm x 1m x 1m

Rubber
Connectors
Are Available
(Sold Separately)



Allow several mats to be
joint together to cover a
larger work area.

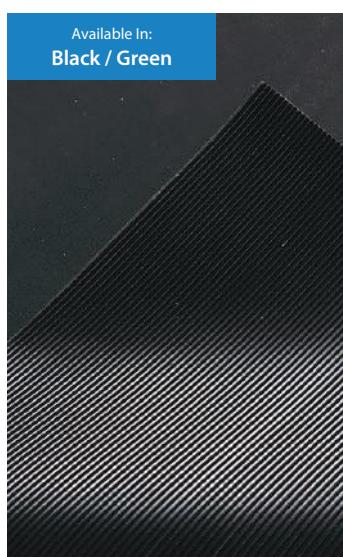


Rubber Stud Mat

CVS® Rubber Stud Mat has anti-slip round studs which makes work areas safer. It is easy to clean and maintain. Helps reduce noise and impact at the work shop, as well as prevents damage to flooring.

Application: Commonly used on floorings of cargo lifts, workshops, and warehouses.

Size: 4.5mm x 1m x 10m



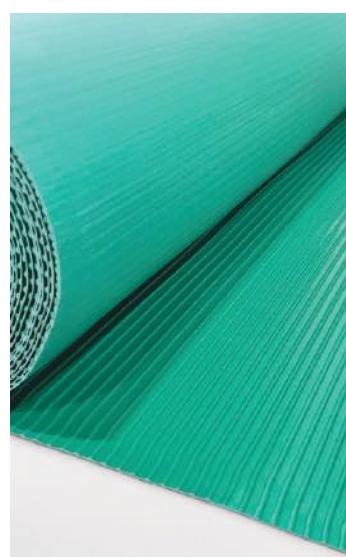
Corrugated Rubber Mat

CVS® Corrugated Rubber Mats are made from synthetic rubber compounds. Besides being waterproof and lightweight, it is also ribbed for increased traction and safety. Additionally, it reduces noise and impact in production areas.

Application: Ideal for floorings of cargo lifts, workshops, warehouses, truckbeds and storage areas.

Size Available:

- 3mm x 1m x 10m
- 4mm x 1m x 5m
- 5mm x 1m x 5m
- 6mm x 1m x 5m



Corrugated Plastic Mat

CVS® Corrugated Plastic Mat is waterproof, lightweight and has groovy surface that adds for traction and safety. In addition to its excellent chemical and impact resistance, the mat can also be cut easily to fit any dimension onsite.

Application: Suitable for coastal plant and warehouses, chemical and pharmaceutical plants, mines and metal plants, residential carports and pergolas, as well as food processing plants.

Size Available:

- 2mm x 910mm x 10m
- 2mm x 910mm x 18m

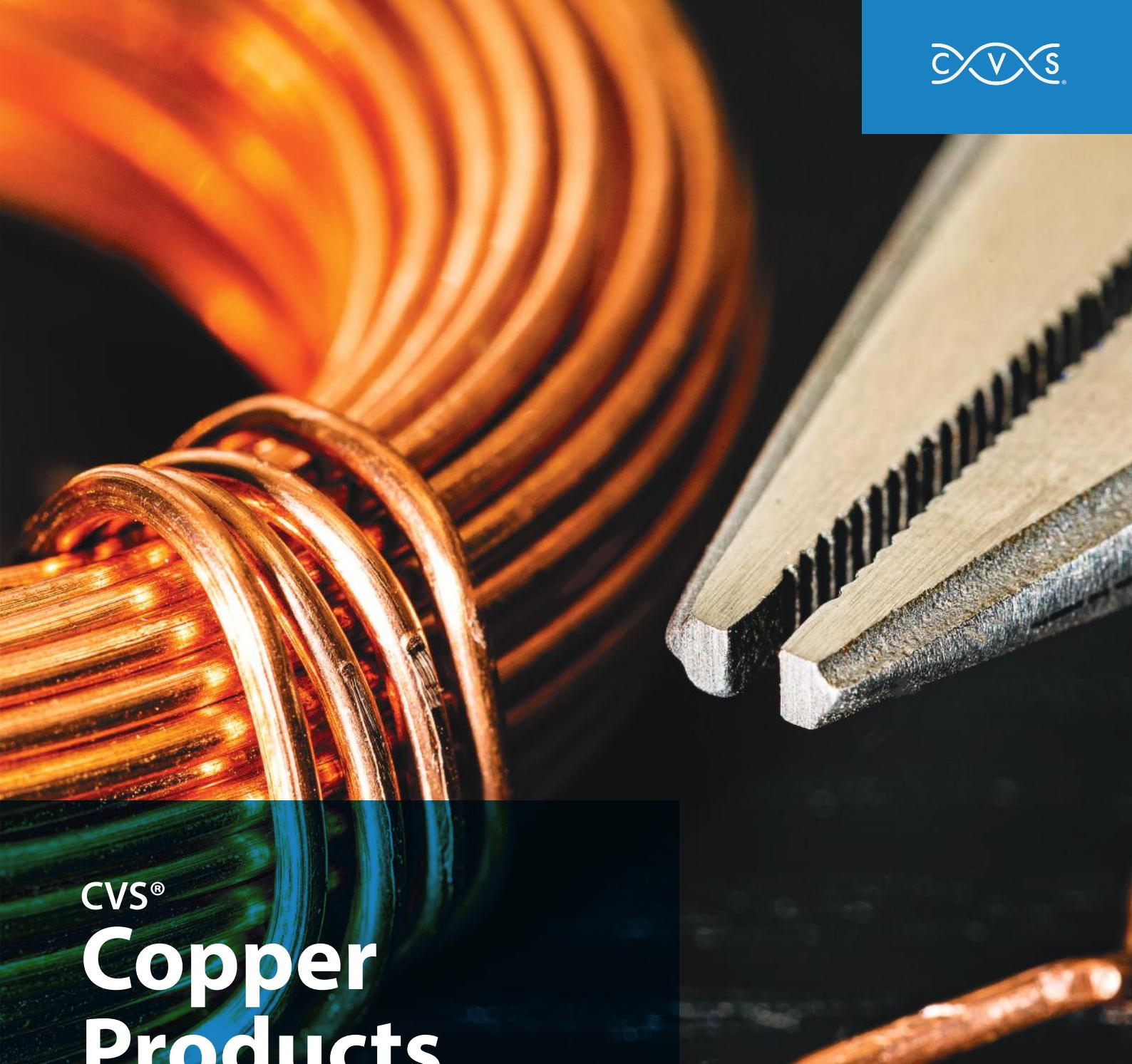


CVS®

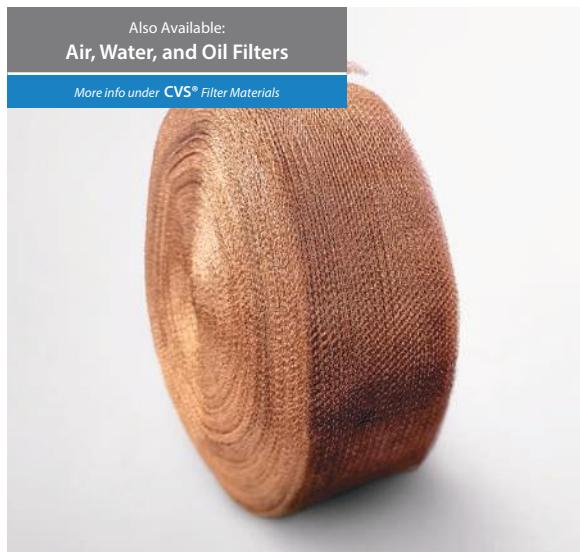
Copper Products

- Copper Filter Materials
- Copper Wires & Washers

Essential copper hardwares for use in filtering, cleaning, tieing, and gasketing purposes.



CVS® supplies essential copper hardwares, including copper wire, copper wool filters, and comprehensive copper washer kits. These products are designed to meet various needs in marine and construction applications, providing efficient electrical conductivity, filtration, and sealing solutions.



Copper Wool Filter

Made of wool-like fine copper and woven into flat tubes. Finely meshed net can strain out and refine lubricating oil or any other liquid.

Application: Serves as a filter of oil, gas, and water. Ideal for use in replacing the copper mesh in ship's turbocharger filter. Can also be used as a scrubber for cleaning the inside and outside of mechanical parts.

Product Features:

- High strength
- Firm structure
- Never rust
- Non-flammable
- Resistant to disintegration
- Reusable
- Long service life



Copper Wire

Copper wires have good electrical conductivity, abrasion resistance, and corrosion resistance. Available in diameter of 1mm to 3mm.

Application: Used for DIY projects and securing purposes in the marine and general industry.



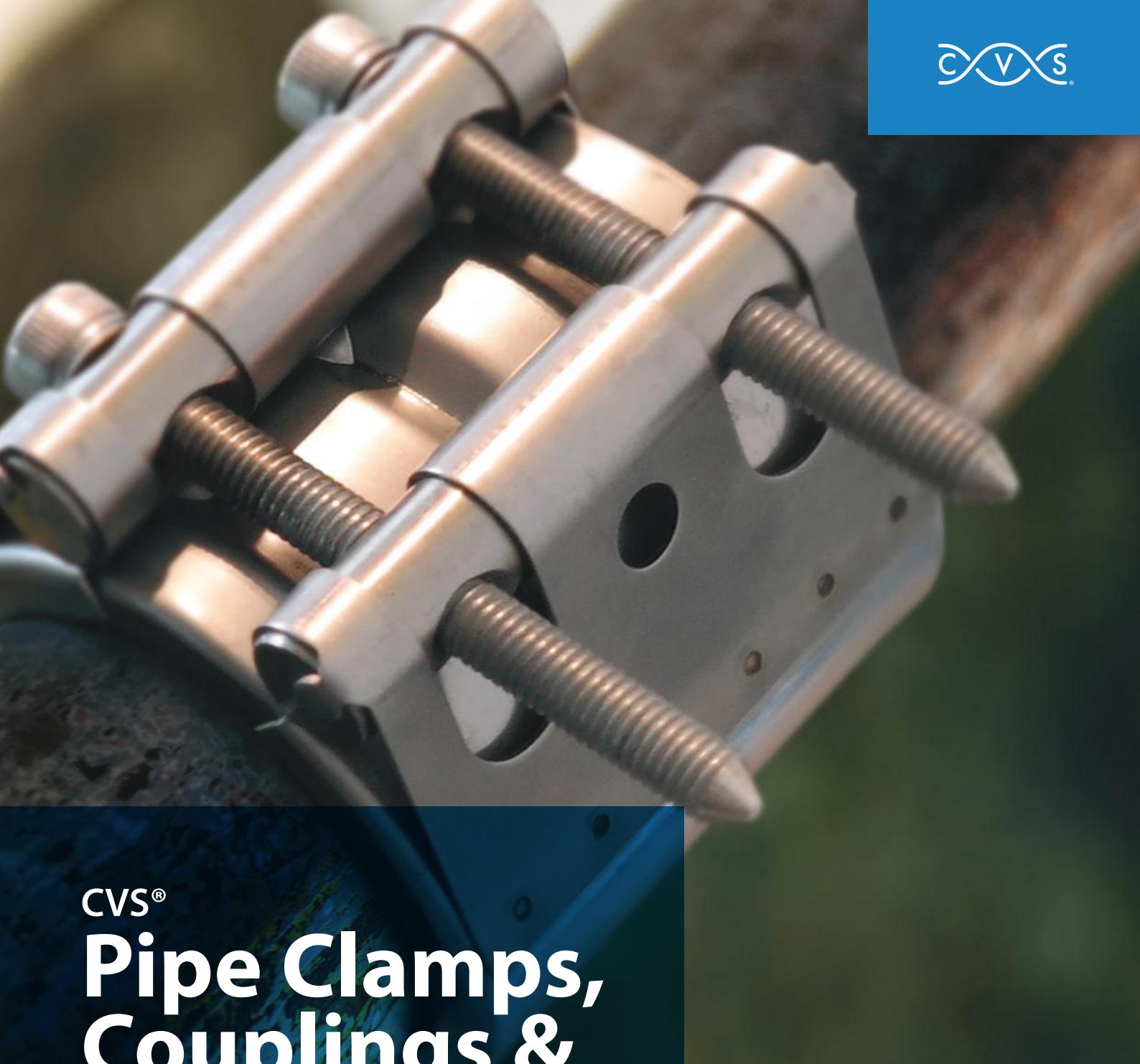
Copper Washer Kit

An assortment of copper washers ideal for hydraulic connections, automotive and plumbing.

Available In:

- 16 Sizes / 200 Pc
- 30 Sizes / 284 Pc
- 30 Sizes / 400 Pc
- 30 Sizes / 540 Pc





CVS®

Pipe Clamps, Couplings & Other Tools

- **Pipe Clamps & Couplings**
- **Banding Tool & Hardwares**
- **Detector Tester Kits, and more**

Easy-to-install solutions for pipe-related problems, as well as a selection of easy-to-operate hand tools.

Depending on your application, we offer three different types of pipe joining and repairing products:

Pipe Clamp (Flex-Type): Ideal for permanent repair under pressure
Pipe Coupling (Flex-Type): Allows for pipe expansion and contraction
Pipe Coupling (Grip-Type): Offers restraint connection between pipes

Our Pipe Clamps & Pipe Couplings are accompanied by Test Certificates, which can be provided upon request:





Pipe Clamps and Couplings for easy joining of pipes and emergency repairs

CVS® Pipe Clamps & Couplings are an economical, easy-to-install solution for pipe-related problems. The pipe joint can be secured with only a torque wrench, without the need for flanging, grooving, threading, or welding. It is made of stainless steel with good temperature, corrosion and chemical resistance and can be used on oil, cooling water, compressed air, rinse water, waste water treatment, as well as water and gas distribution pipelines.

Sealing Sleeve Available:

- **(EPDM) Rubber:**
Ideal for all water, waste water, air, solid, and chemical products
- **(NBR) Rubber:**
Ideal for water, gas, oil, fuel, and other hydrocarbons



Pipe Clamp (Flex-Type)

CVS® Pipe Clamps (Flex-Type) are repair couplings, they are a split case version of the standard CVS® Pipe Couplings (Flex-Type) which provides the same flexibility features. The split gasket design can be wrapped around the pipe and installed without pipe disassembly in minutes, avoiding costly downtime.

Application: Ideal for all situations where you need to make a permanent repair under pressure such as leaks due to faulty weld joints, pitting holes and short cracks.

Product Features:

- Universal usage
- Easy to install
- Economical
- Durable and reliable
- Space-saving



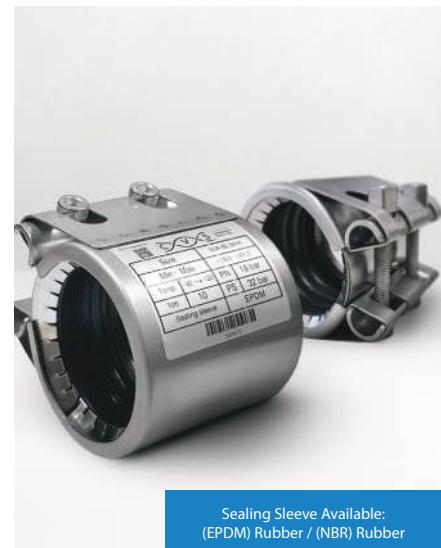
Pipe Coupling (Flex-Type)

CVS® Pipe Couplings (Flex-Type) are multifunctional couplings with two thick sealing lips which allow for pipe expansion and contraction, as well as angular deflection. These couplings require the pipes to be axially restrained and they are an economical alternative to rubber and metal expansion joints.

Application: Suitable for use on applications such as water and gas lines, water and waste water treatment plants, production and chemical industries, power plants, mining, shipbuilding industries and various engineering scopes. Can be installed in a few minutes easily.

Product Features:

- Universal usage
- Easy to install
- Economical
- Durable and reliable
- Space-saving



Pipe Coupling (Grip-Type)

CVS® Pipe Couplings (Grip-Type) are axially restrained and attached with two anchor rings. Anchor rings with uniquely designed teeth allow anchoring effect to progressively increase as internal pressure increases.

Application: Used extensively on pipelines where vibration is high. It offers a tensile or restraint connection between the pipes, holding them in position and preventing leakage. Installation is quick, safe and economically, it replaces the need for flanging, welding, pipe grooving and pipe threading.

Product Features:

- Universal usage
- Easy to install
- Economical
- Durable and reliable
- Space-saving





Spider Coupling Essential component for jaw couplings

Spider Couplings are a common type of shaft coupling in the industry.

Application: They are designed to transmit torque and rotation between two shafts, accept shaft misalignment, and help protect components from damage by damping shock and vibrations.

Product Features:

Made from thermoplastic polyurethane, it offers a high load capacity while maintaining a damping effect on vibration and thermal conductivity. The elastomer material also provides good resistance to oils and chemicals, as well as electric isolation between both shafts.



Banding Tool

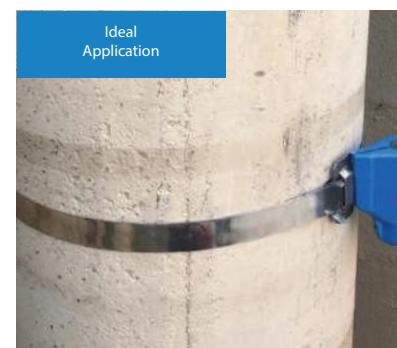
Stainless Steel

A stainless steel tensioning tool with built-in cutter and spring loaded gripper lever for improved ease of use.

Application: For use with banding band and buckles, for the purpose of connecting, clamping, fastening, securing and fixing hose, pipe, cables, signs, boards, etc.

Product Features:

- Labor saving
- Easy to operate
- High durability



Banding Screw Buckle

Stainless Steel

High corrosive resistance and rust resistance stainless steel screw buckles, suitable for use whenever an adjustable, or temporary clamp is required.

Pieces per pack: 50 (6.4 - 12.7mm)
Pieces per pack: 25 (16 / 19mm)



Banding Buckle

Stainless Steel

High corrosive resistance and rust resistance stainless steel buckles. Use with the banding tool for connecting, clamping, fastening, securing and fixing hose, pipe, cables, signs, boards, etc.

Pieces per pack: 100



Banding Band

Stainless Steel

High corrosive resistance and rust resistance stainless steel bands. Use with the banding tool for connecting, clamping, fastening, securing and fixing hose, pipe, cables, signs, boards, etc.

Length of band: 30m





Heat Detector Tester

The Heat Detector Tester is specially designed to provide quick and reliable testing of heat detector with maximum safety regardless of the number of units to be tested for fire alarm system on the ceiling.

Comes complete with lightweight aluminium pole and light bulb.

Application: Widely applicable for firefighting system installation and engineering, as well as fire alarm system maintenance and testing.

Product Features:

- Easy and safe to operate
- Efficient testing
- Firm and durable

Ideal Application



Smoke Detector Tester

Used with smoke detector tester spray, this light weight aluminum pole with trigger mechanism allow users to test smoke detector system on high ceilings.

Comes complete with a canister of CRC smoke detector tester spray.

Application: Widely applicable for firefighting system installation and engineering, as well as fire alarm system maintenance and testing.

Product Features:

- Easy and safe to operate
- Efficient testing
- Firm and durable

Ideal Application



Gasket & Washer Cutter

Comes with two adjustable blades that help cut the inner and outer diameters simultaneously.

Application: Designed for cutting non-metallic, semi-metallic, as well as steel reinforced gaskets.



Punch Tool Set

Inclusive of 16 punching dies and a punching table.

Application: Punch holes in soft brass, copper, and other soft metals and other gasketing materials. Ideal for crafting 6mm to 38mm gaskets and washers.

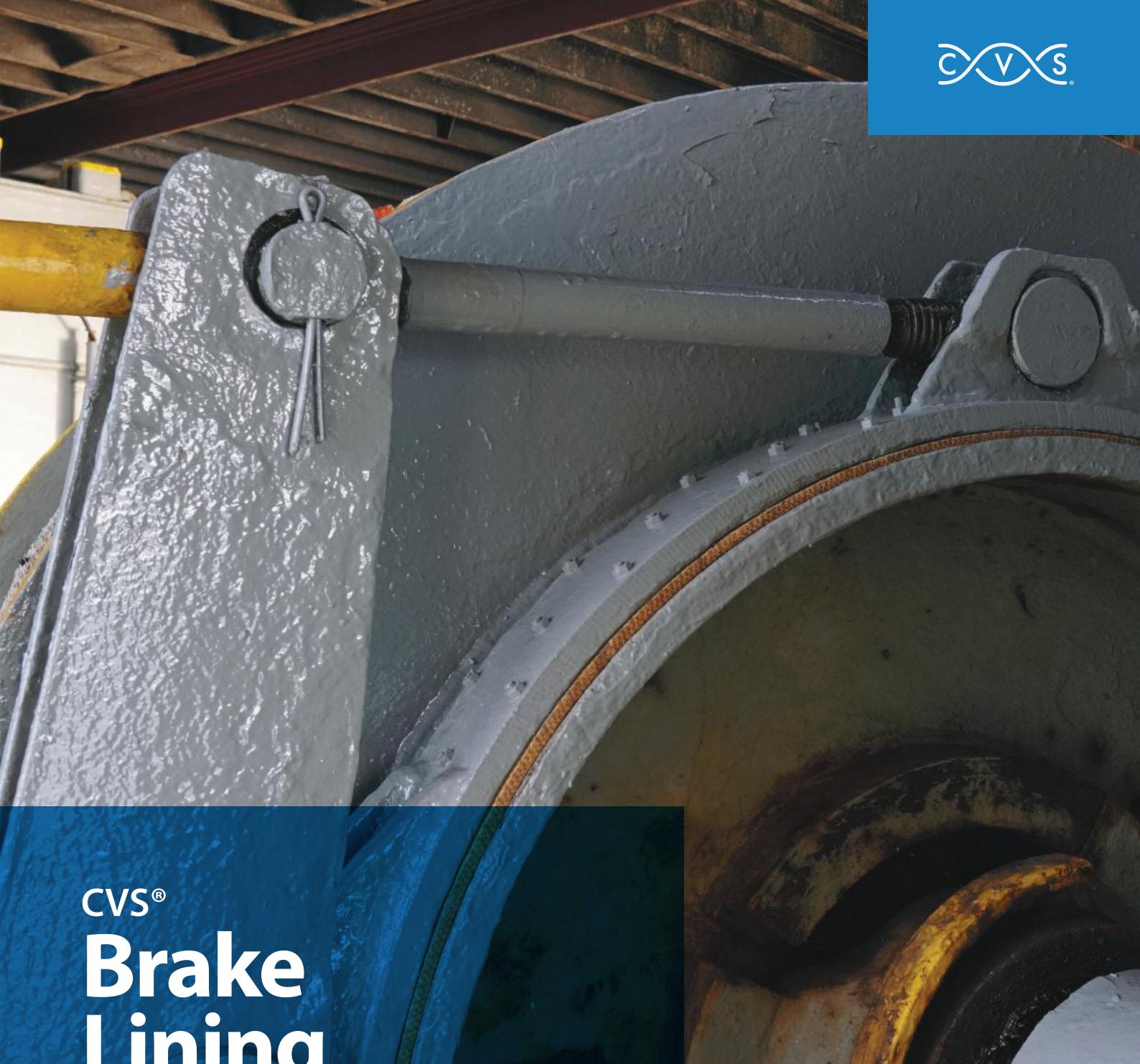


Packing Hook Set

Made up of two spiral steel shafts, one inside the other and wound in opposite directions. Corkscrew tip is permanently attached.

Application: Useful for removing used packing materials from pumps and valves.





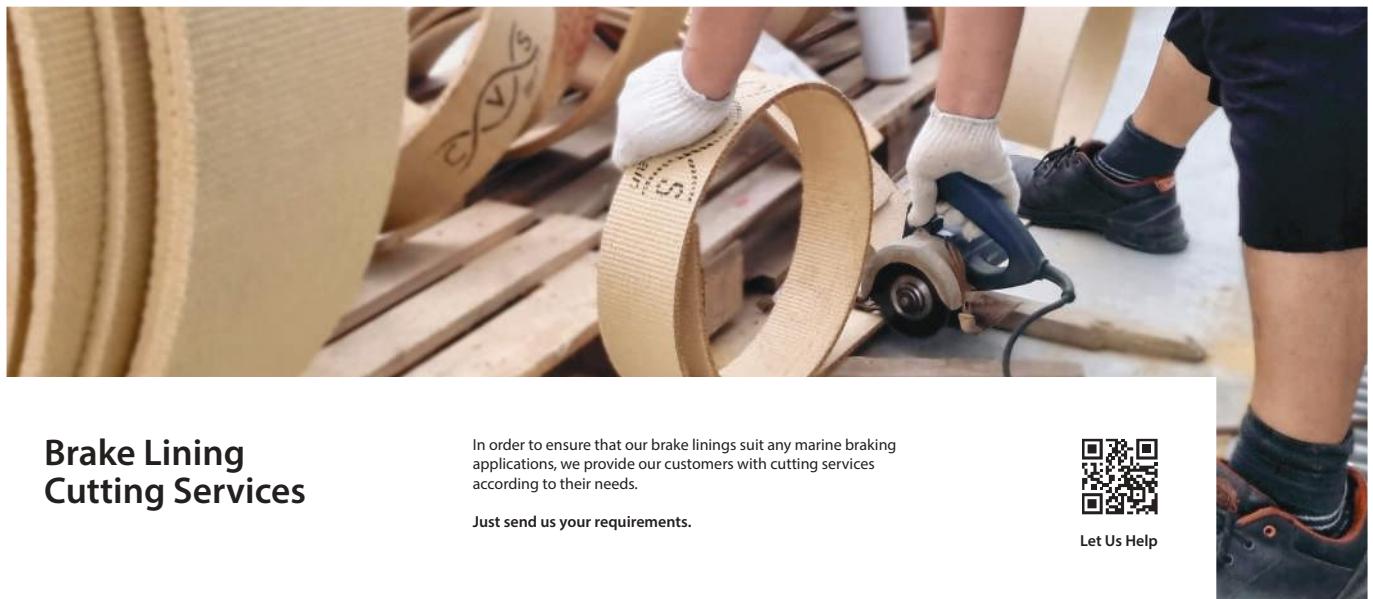
CVS® Brake Lining

- **Brake Lining**
- **Brass Countersunk Bolt & Nuts**

100% non-asbestos woven brake linings for marine braking applications and securing accessories.

Brake linings find various applications in the marine industry due to their reliable braking performance, resistance to environmental factors, and safety considerations.

Our Brake Linings are accompanied by Non-Asbestos Test Certificates, which can be provided upon request.



Brake Lining Cutting Services

In order to ensure that our brake linings suit any marine braking applications, we provide our customers with cutting services according to their needs.

Just send us your requirements.



Let Us Help



Brake Lining

CVS® Brake Lining is a semi-flexible, 100% asbestos-free lining manufactured from a solid woven fabric of both natural and man-made yarns. Contains brass wire insertion which helps to stabilise the friction value by conducting heat from the operating surface. When the woven fabric is impregnated with the specially developed synthetic resin it produces a friction material with excellent stability and high resistance to wear.

Application: Suitable for use on most applications, including winches, cranes, earth-moving and agricultural equipment, forging machinery and many others.

Product Features:

- High temperature resistance
- High friction coefficient with excellent stability and durability
- Resistant to seawater
- Both sides of brake lining can be used for internal or external contracting braking systems



Size Available:
M6 / M8 / M10 / M12

Brass Countersunk Bolt and Nut

CVS® Brass Countersunk bolts and nuts are used to additionally secure the brake lining following vulcanisation (gluing) of the brake lining.

In order to properly fasten the bolts and nuts, a countersunk hole must be drilled in the brake lining using a countersink drill bit.





Aste® offers a wide variety of General Deck Products from leading brands for applications, such as Anti-piracy, Personnel safety, and much more.

Anti-piracy and personnel safety are crucial concerns in the maritime industry, and having reliable products can help ensure the safety and security of crew members and cargo.

Aste® supplies a diverse range of products that can help address these concerns.



Ladders & Safety Equipment

- Pilot Ladders • Embarkation Ladders
- Wharf Ladders • Life Jackets & Buoys
- Automatic Fall Arrest Device
- Personnel Transfer Basket, and more

Maritime-appropriate ladders, accessories, and a diverse selection of safety equipment.

Our Ladders are accompanied by Test Certificates, which can be provided upon request:



Length Available:
6 / 9 / 12 / 15 / 18m



MARS SAFETY INTERNATIONAL

Pilot Ladders (MED Approved)

Our Pilot Ladders meet the required standards (ISO 799-1:2019) to ensure your maritime pilots board the vessels safely.

Application: Pilot ladders are used every day by maritime pilots around the world to board and disembark ships. When buying ladders, it is very important to purchase from a reputable stockist only.

Product Features:

- The steps on these ladders have non-skid surfaces and are secured with sea water resistant aluminium clamps
- Ropes are not painted, coated or covered and thimbles will be provided
- Ropes spliced to top on the ladder
- All steps are made from hardwood, bottom 4 steps are made from rubber



Available in two different bottom end structures

Please choose bottom structure type upon order confirmation. If no option is chosen, we will proceed with option 2 (Closed End) which is more common.

Length Available:
15 / 20 / 25 / 30 / 35m



MARS SAFETY INTERNATIONAL

Embarkation Ladders (MED Approved)

Our Embarkation Ladders are in compliance with ISO 5489:2008.

Application: Embarkation Ladder is one of the deck equipment, often used by the crew to board a lifeboat or used as access to the life rafts during emergencies when the crew is unable to control a fire, the ship is sinking or there is a danger of explosion.

At times, can also be used by the crew and stevedores during bunkering operations, hauling of provisions, and ship stores.

Product Features:

- The steps on these ladders have non-skid surfaces and are secured with sea water resistant aluminium clamps
- Ropes are not painted, coated or covered and thimbles will be provided
- Ropes spliced to top on the ladder
- All steps are made from hardwood, bottom 4 steps are made from rubber



Length Available:
3 / 4 / 5 / 6m



MARS SAFETY INTERNATIONAL

Wharf Ladders (Aluminium) (ABS Certified)

Flat-type aluminium gangways suitable for safe and easy ship to shore access. Include aluminium stanchions for hanging hand rope at both sides.

Our wharf ladders are ABS certified and certification report are provided.

Application: Ideal for boarding or disembarking passengers and crew when the ship is moored next to a dock.

Product Features:

- Non-slip walking surface
- Clear width of 60cm
- Cross ridges for foot support
- Come with rollers and hook
- Removable aluminium stanchions and rope



Item is Sold per piece



MARS SAFETY INTERNATIONAL

Holding Magnets

Lightweight at 3.5kg, provides more than 300kg of clamping force even through layers of paint and salt scale and grime on a ship's hull.

Application: Specially developed to make life safer for maritime pilots by providing removable anchor points for pilot ladder on the ship's side. Can also be used for anchoring floating spill booms and maintenance vessels.

Product Features:

- Designed to withstand aggressive marine environments and have no internal moving parts or entry points for sea water - a natural enemy of neodymium magnet material
- Derlin roller makes the hull magnet simple to attach and release
- Powder-coated in yellow for high visibility

Tightening Belt and Storage Box are sold separately.



Tightening Belt

A hi-vis orange belt with carabiner hook. For securing holding magnets to the pilot ladder.



Wooden Storage Box

Wooden box capable of storing a pair of holding magnets for pilot ladder.



Replacement Steps

Size (Hardwood Flat): 525mm x 115mm x 28mm
Size (Hardwood): 525mm x 115mm x 63mm
Size (Rubber): 525mm x 115mm x 40mm



Automatic Fall Arrest Device (CE EN353-1) Self-retracting and self-locking

The use of automatic fall arrest devices allows for greater mobility for those working at height, while also minimizing trip hazards as the cable is always under constant tension. Breaking mechanisms stop falls quickly and reduce forces on the user's body. Complies with EN353-1 standard.

Application: Allows users to work safely at height, suitable for scaffolding, wind energy, tower crane erection and maintenance, and high bay pallet racking.

Cable Length Available: 10m / 15m / 20m / 25m / 30m

Product Features:

- Superior strength
- Quick and easy installation



Stage With Transverse Bearers

Wooden plank with small crosspiece of wood at each end of the stage. With a proper setup and use of personnel safety equipment, the stage provides a stable and secure platform for workers to perform tasks at elevated heights. This contributes to safety by minimizing the risk of slips, trips, and falls.

Application: Stages are suspended from rope lanyards at each end, and are used to support men working over the ship's side or within the holds.

Size: 300mm x 40mm x 4000mm

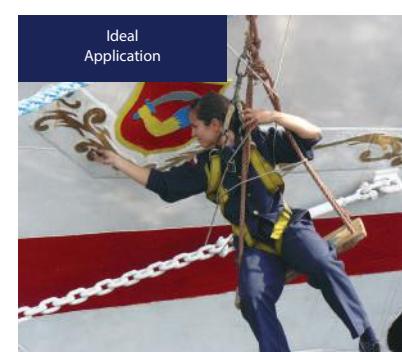


Boatswain's Chair With Ropes

A wooden board slung by a rope and used to sit on while working at height or over the side of a ship.

Application: Suitable for inspection work, window washing, painting, and maintenance. Boatswain's chairs should only be used where the work is relatively short duration and light work.

Size: 620mm x 160mm x 25mm





Personnel Transfer Baskets (ABS Certified)

The personnel transfer basket, also known as the marine offshore man basket, is a device used to transport crews from one point to another safely and quickly using a crane mounted on either a floating or fixed platform.

Our personnel transfer basket is ABS certified and certification report are provided.

Application: Ideal for marine or offshore, ship to ship crew transfer.

Product Features:

- Collapsible
- Safe and quick
- Cost-effective
- Enhance safety and comfort level for personnel during transfers



Lifebuoy Ring (MED Approved)

Made from high-density polyethylene and buoyancy from polyurethane foam for durability in exposed weather conditions. Come with Solas reflective tape and poly rope.

Our lifebuoy ring complies with the Marine Equipment Directive 2014/90/EU and Implementation Regulation (EU)2022/1157.

Application: A lifebuoy ring is normally thrown into a water body to assist the casualty with staying afloat by holding on to it and being pulled out by a rescuer.

Product Features:

- High durability
- Smooth surface
- Bright orange
- Solas reflective tape
- Poly rope grips



Lifebuoy Bracket

Lifebuoy bracket to hold SOLAS lifebuoys.

Application: Bracket holds lifebuoys steady on deck or on shore based locations.

Product Features:

- Compatible with lifebuoys with outer diameter 72cm-76cm
- A white colour blends into most boats aesthetically





Inflatable Working Life Jacket With Whistle (CCS Certified)

Single chamber inflatable adult life jacket fitted with a whistle, SOLAS reflective tapes, and lifting loop. CO₂ cylinder is included. Comes with CCS certificate.

Application: Suitable for use by working crew on ships.

Product Features:

- Adult size
- Reflective tapes
- Inflates automatically via CO₂ cylinder when immersed in water
- Can also be inflated with manual pulling of cord or oral inflation tube



Children Life Jacket With Whistle (MED Approved)

Children life jacket fitted with a whistle, SOLAS reflective tapes, lifting loop, and buddy line. Made of EPE foam material.

Our life jacket is MED approved and in compliance with SOLAS 74; MSC.48(66)-(LSA Code) as amended by MSC.207(81); MSC.81(70) as amended by MSC.200(80); MSC.323(89) revised recommendation on the testing of life-saving appliances.

Application: Suitable for all kinds of vessels and ships, used by child passengers as life-saving equipment.

Height/Weight Suitability: 100cm to 155cm / 15kg to 43kg

Product Features:

- Yoke type
- Adult size
- Reflective tapes



Adult Life Jacket With Whistle (MED Approved)

Adult life jacket fitted with a whistle, SOLAS reflective tapes, lifting loop, and buddy line. Made of EPE foam material.

Our life jacket is MED approved and in compliance with SOLAS 74; MSC.48(66)-(LSA Code) as amended by MSC.207(81); MSC.81(70) as amended by MSC.200(80); MSC.323(89) revised recommendation on the testing of life-saving appliances.

Application: Suitable for all kinds of vessels and ships, used by seamen and passengers as life-saving equipment.

Height/Weight Suitability: ≥155cm / >43kg to 140kg

Product Features:

- Yoke type
- Adult size
- Reflective tapes



Working Life Jacket With Whistle (CCS Certified)

Adult life jacket fitted with a whistle and SOLAS reflective tapes. Made of EPE foam material. Comes with CCS certificate.

Application: Suitable for use by working crew on ships.

Product Features:

- Adult size
- Reflective tapes





 MARS SAFETY INTERNATIONAL

Life Jacket Light (MED Approved)

A clip-on water-activated light for lifejacket use. Our life jacket lights are MED/SOLAS approved and in compliance with IMO Res MSC 207(81). Activated by a water sensor, the flashing light can be turned off manually when out of water.

Application: Clipped onto the lifejacket, attracting attention in the dark, allowing the crew and emergency services to locate you more quickly.

Product Features:

- Flashing signal light
- Waterproof
- Robust housing



 MARS SAFETY INTERNATIONAL

Position Indicating Strobe Light (MED Approved)

A external light for lifeboat and liferaft use.

Our strobe light is MED/SOLAS approved and in accordance with IMO Res MSC 218(82), MSC 207(81) and MSC 226(82).

Application: To be wired manually to the survival craft's power supply equipment. Equipped with designated flashing, it delivers a comprehensive and effective light signal to pinpoint location, ensuring a clear and prominent signal for swift rescue operations.

Product Features:

- Flashing signal light
- Waterproof
- Robust housing



Fire Blanket

Designed to extinguish either a small fire or to wrap around a person to protect them in hazardous areas. Made from 100% fiberglass and meets the EN-2869:1997 standard for cooking fire suppression. The blanket enables the user to remove oxygen from a burning fire by smothering additional air that would continue to fuel the fire.

Application: It is typically applied in small fires (kitchen, camping, fireplace, car, office, boat, etc.) or to douse an individual's burning clothes.

Product Features:

- Easy to use
- No expiry date
- Compact size, easy to storeand carry





Winter Parka
With Reflective Tapes

Waterproof and coldproof, keep dry and protected from the elements.

Application:

- Suitable in rain / wet / cold environments
- Mining cold storage and refrigeration
- General outdoor work in cold climate
- Contractor applications

Product Features:

- Detachable hood with drawstrings
- Inner knitted cuffs
- Waterproof seams
- Reflective tapes
- Wind resistant fabric to protect against wind chill
- Fastening with zip under press stud storm flap
- Two outer utility pockets, one inner utility pocket



Winter Trousers
With Reflective Tapes

Waterproof and coldproof, keep dry and protected from the elements.

Application:

- Suitable in rain / wet / cold environments
- Mining cold storage and refrigeration
- General outdoor work in cold climate
- Contractor applications

Product Features:

- Waterproof seams
- Reflective tapes
- Wind resistant fabric to protect against wind chill
- Two outer pockets



Winter Boilersuit
With Reflective Tapes

Waterproof and coldproof, keep dry and protected from the elements.

Application:

- Suitable in rain / wet / cold environments
- Mining cold storage and refrigeration
- General outdoor work in cold climate
- Contractor applications

Product Features:

- Detachable hood with drawstrings
- Inner knitted cuffs
- Waterproof seams
- Reflective tapes
- Wind resistant fabric to protect against wind chill
- Fastening with zip under press stud storm flap
- Fastening with zip on both sides of leg area
- our outer utility pockets





JIULI®

Rope Products

- **Marine Ropes**
- **Rope Protector Sleeve**
- **Nettings**

Marine ropes and high-quality protective sleeves for your mooring needs, as well as nettings for protecting goods and personnel.

Jiuli® is the biggest rope manufacturer of China and is one of the two members of ISO standard of mooring rope in Asia.

As the appointed distributor, Aste® offers a range of Jiuli® rope products at a value price point.



8-Strand Mixed Rope (PP+Polyester)

Lloyd's Register Approved. It has high strength, low elongation, wear resistance, and anti-corrosion properties.

Application: This type of rope is commonly used in marine, industrial, and agricultural applications, such as mooring lines, towing lines, and winch ropes.

Rope Length: 220m

Size Available:

- Ø 56mm
- Ø 64mm
- Ø 72mm
- Ø 80mm



3-Strand Monofilament Polypropylene Rope

It is rot proof and unaffected by water, oil, gasoline, and most chemicals. Polypropylene floats yet it is twice as strong as manila.

Application: Suitable for cable pulling, cargo nets, ring buoys, lightweight dock lines.

Product Features:

- Good strength
- Low to moderate elongation
- Light weight and floats
- Smooth surfaced
- Wear resistance
- Good resistance to mildew, rot and chemicals
- Economical and versatile

Rope Length: 200m

Size Available:

- Ø 8mm
- Ø 10mm
- Ø 12mm
- Ø 14mm



Rope Protector Sleeves (CCS Certified)

Made of high-quality composite polyolefin and canvas material, assured with strict friction test.

Application: Covers and protects mooring rope from abrasive surfaces and extending its service life.

Size Available:

- Small (Rope Ø 8-42mm)
- Medium (Rope Ø 46-66mm)
- Large (Rope Ø 68-100mm)





Cargo Net (PP Rope)

Made of Polypropylene (PP Rope).

Application: In the shipping industry, it is used to secure loads during transportation to prevent them from shifting, as well as to deter theft.

Size Available:

- 2.5m x 2.5m
- 3m x 3m
- 4m x 4m
- 5m x 5m



Gangway Net (PP Rope)

Made of Polypropylene (PP Rope).

Application: Used for safety where there is a risk of falls between the ship and quayside during embarkation and disembarkation.

Size Available:

- 4m x 16m
- 5m x 10m



Anti-Slip Gratings

- **FRP Gratings**
- **Galvanized Iron Gratings**
- **Grating Accessories**

Increase mobility and safety of your crew with slip-proof FRP Molded and Pultruded gratings or Galvanized iron gratings.

As Strongrate's authorised distributor, we offer high-quality chemical resistant FRP Molded gratings with cut-to-size fabrication services, as well as made-to-order FRP Pultruded gratings.

Additionally, we also supply Galvanized Iron gratings and fasteners for grating.

Our FRP Gratings are accompanied by Test Certificates, which can be provided upon request:





FRP Molded Grating With Cutting and Fabrication Services

Besides supplying FRP stock panels, we also offer grating cutting services. This allows customers to customize the size and shape of their panels for their particular application, instead of having to purchase a standard size panel that might not fit their needs.

Our customization options include resin systems and structure types that can be tailored to your specifications. For order inquiries, please contact us.



Let Us Help



Add-On FRP Angle Bars

A grating support ledge can be easily attached to our FRP building system using angle bars made from the same material as the grating.

These gratings are perfect for covering drains.



M Holding Down Clips

Stainless Steel holding down clips used for connecting and securing H25mm and H40mm FRP molded gratings.





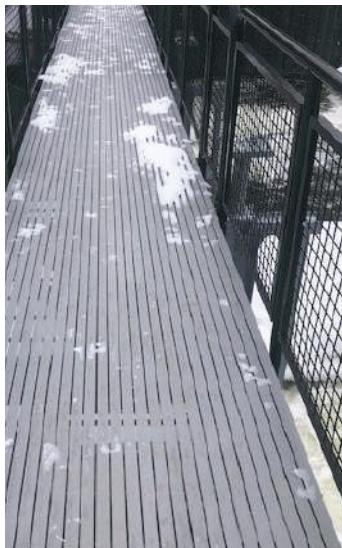
FRP Pultruded Grating (Made-To-Order)

Our FRP Pultruded Gratings are particularly well suited for highly corrosive environments and offers extended life, eliminating periodic maintenance and replacement costs, thus making them the preferred alternative to conventional steel gratings. The product is only available as a made-to-order item.

Our customization options include resin systems and structure types that can be tailored to your specifications. For order inquiries, please contact us.



Let Us Help



Pultruded Pedestrian Series Grating

Manufactured from wide T-bars with a thickness of 25mm and 38mm in various configurations and panel sizes.

A pultruded pedestrian grating of 25mm thick is designed for walkways and access areas where pedestrian traffic is the heaviest. The 38mm thick pedestrian pultruded grating is approximately three times stiffer and is used in applications that require a wide span of 1800mm or low deflection criteria.

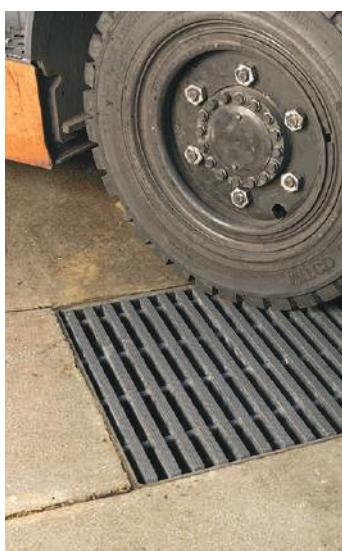


Pultruded Industrial Series Grating

Specifically designed for use in a wide range of industrial applications that require strength and corrosion resistance.

Manufactured with a high percentage of glass within laminate, industrial grating provides durability, extremely high unidirectional strength and stiffness. Due to its exceptional stiffness, it can be used with confidence where wide support spans are required.

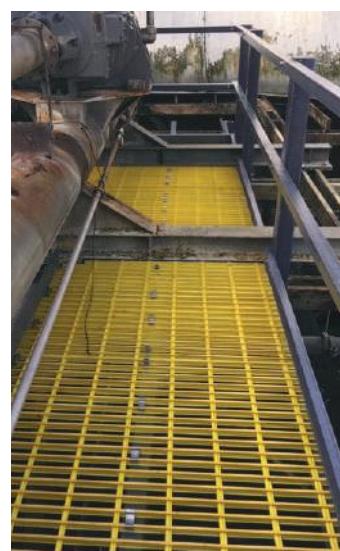
Comes in 25mm, 32mm, and 38mm thick in an I-bar configuration with 40%, 50%, and 60% opening for most applications. 50mm thick T-bar configuration with either 33% or 50% open area for applications which require wider span or lower deflections.



Pultruded Heavy Duty Series Grating

Specifically designed for forklift and tractor trailer loads (up to Standard Truck, formerly H20) or high loads and very long spans which traditional fiberglass pultruded grating is not able to support.

This highly engineered product is often used to replace steel gratings where the spans are typically greater. Comes in five types of thickness: 25mm, 38mm, 50mm, 64mm, and 76mm.



Pultruded SI(Standard I-Bar) Series Grating

Widely used in cooling tower walkways due to its large open area. The bonded rod crossbars make pultruded SI Series gratings suitable for use in pedestrian traffic areas and the 73% and 83% open areas allow for excellent air flow.

With profile appearance similar to metal grating, pultruded SI Series gratings are often used in areas where a close match to a steel or aluminum profile is desired.



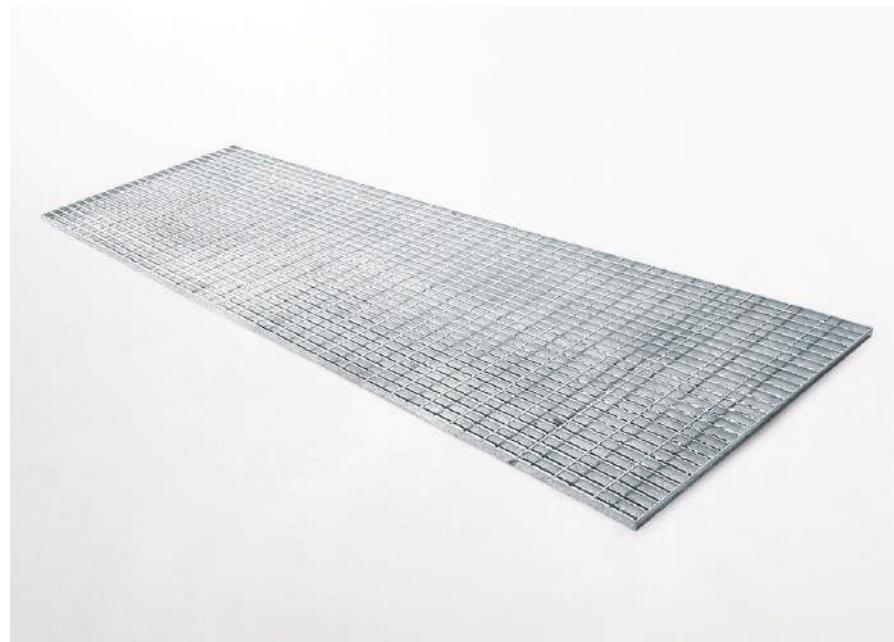
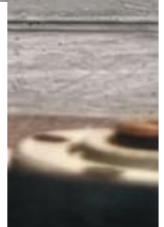
Galvanized Iron Grating With Cutting and Fabrication Services

In addition to supplying Galvanized Iron stock panels, we provide our customers with cutting and fabrication services as well.

We can cater based on your specifications.
Just send us your requirements.



Let Us Help



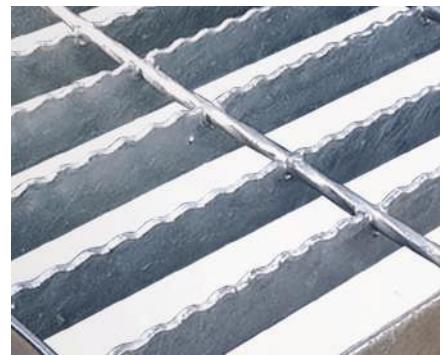
Galvanized Iron Grating

Our Serrated Galvanized Iron Gratings are galvanized surface treated for corrosion resistance properties, which ensure a long service life in corrosive environments.

Application: Suitable for use in ships' flooring, stair tread of gangway, catway, pump room, engine room, etc. Can also be use as platform walkway grating or drainage covers in pedestrian street and factories.

Product Features:

- High strength and bearing capacity
- Anti-slip
- Anti-corrosion
- Easy to install and remove without the use of mechanical hoists
- Do not accumulate rain, snow, and dust



Anti-Slip Serrated Surface

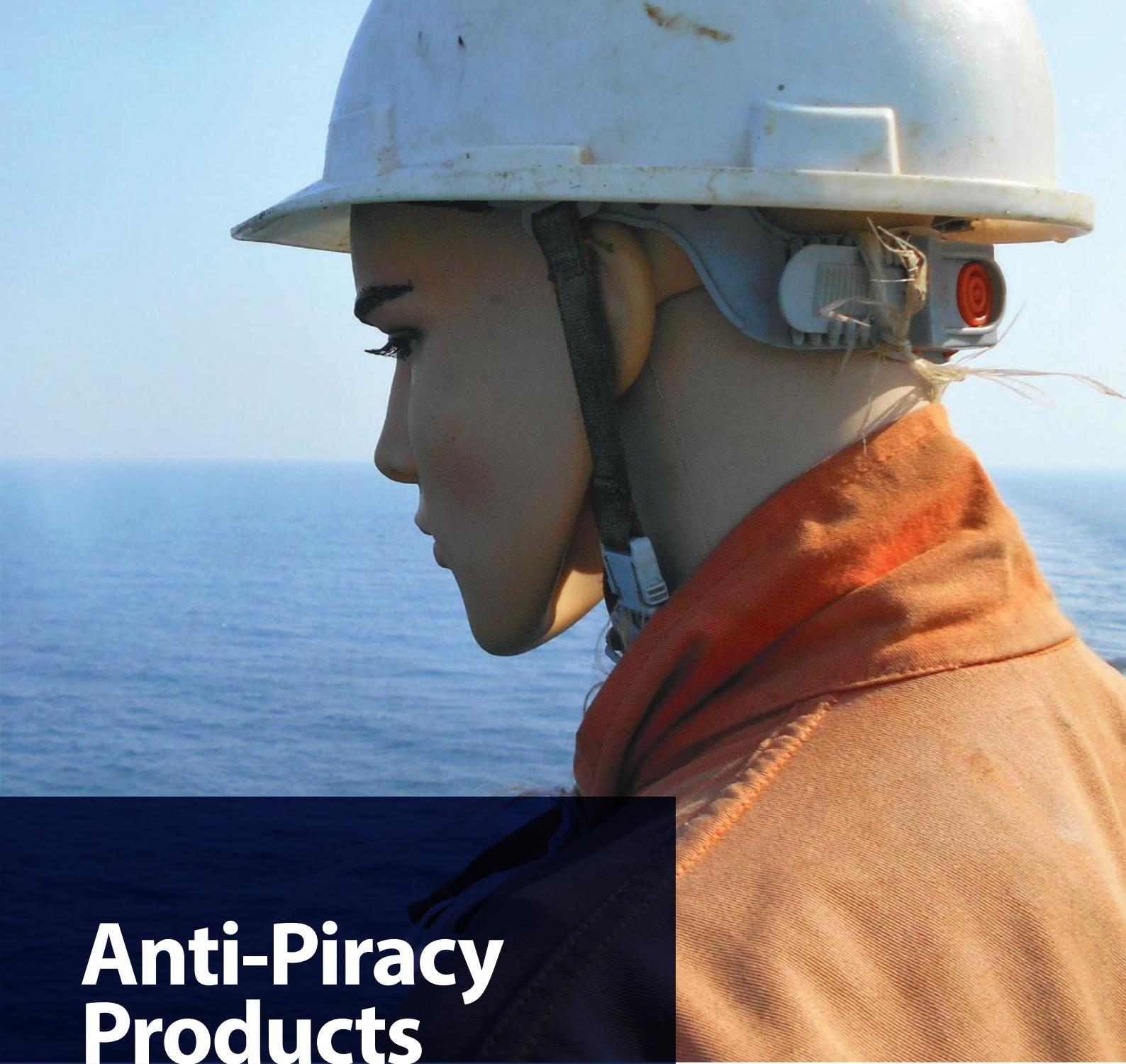
The raised surface on serrated iron grating offers excellent anti-slip properties in environments filled with water, oil and other slippery substances.



Butterfly Holding Down Clips

Available in Galvanized or Stainless Steel. Used for connecting and securing galvanized iron gratings.





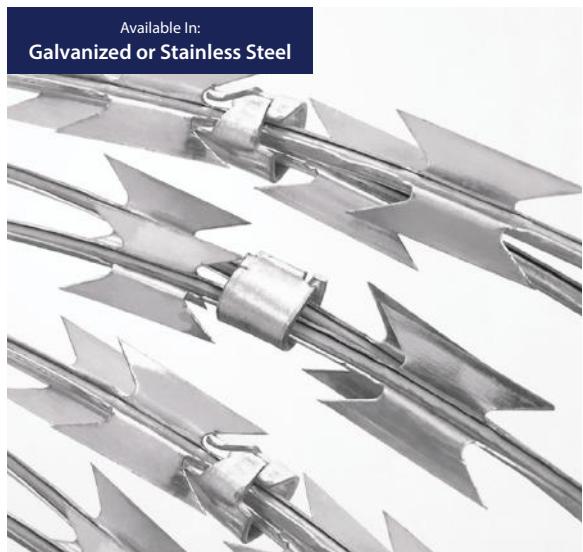
Anti-Piracy Products

- **Razor Wire & Accessories**
- **Anti-Piracy Dummy**
- **Anti-Shatter Film • Portable Toilet**

These products contribute to the safety and well-being of crew members while safeguarding valuable assets from potential threats.

Due to open waters and remote locations, maritime operations are at risk from unique threats, which makes anti-piracy and staff safety of utmost importance.

At Aste®, we provide anti-piracy products to mitigate piracy risks for maritime companies and offshore operators.



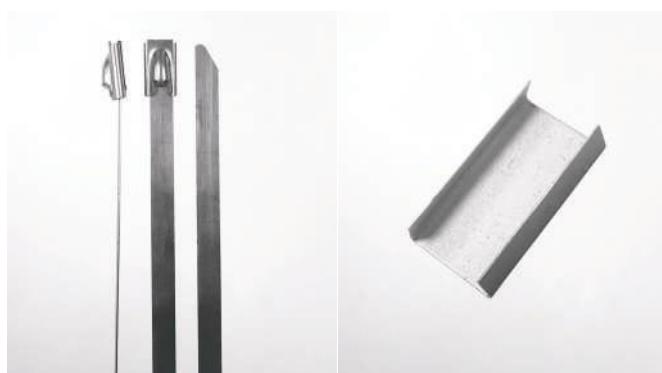
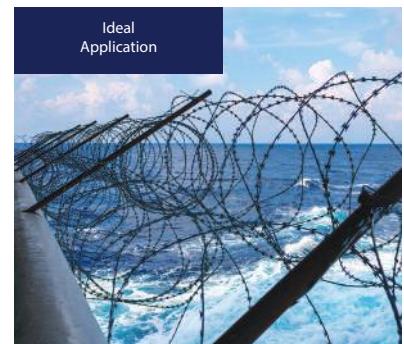
Razor Wire And Accessories

Razor Wires are cross loop wires manufactured using mild steel wire and are equipped with sharp blades.

Application: The razor wire is used for outer boundary fencing on ship's deck to defend ships, it prevents any intruders from penetrating by piercing or gripping them.

Product Features:

- Provide effective deterrent against intrusion through the fence
- Long product lifetime



Connecting Ties And Connecting Clips

Comes in 100 pieces per pack.



Leather Gloves For Razor Wire

Protective gloves made of cowhide leather as the primary material, for installation of razor wire.

Applications: Suitable for handling razor wire and barb wire, as well as other sharp objects. Protects up to lower arm.



Anti-Shatter Film

Provides added layer of protection from dangerous glass breakages in the event of a natural disaster or demolition by pirates.



Anti-Piracy Dummy

Full-color, skin-colored male body with detailed facial features made of polyethylene plastic. Can be easily disassembled into several parts for storage and transport.

Application: For use as a false security patrol man to help assist in deterring pirates.



Portable Toilet

An easy to move and transport waste container, holds water and does not leak. Offers comfort, can be emptied and clean without hassle.

Application: Useful for citadel that does not have standard water closet available.





Cleaning Products

- Oil Absorbents
- Emergency Oil Spill Kits
- Cleaning Wipes, and more

Marine cleaning essentials for general cleaning, oil spillages, as well as personnel hygiene.

Aste® offers a wide array of products that cater to different aspects of marine cleaning, from addressing oil spills to general cleaning needs and specialized tasks like turbocharger maintenance.

These products can ensure ship operators maintain a high standard of cleanliness, safety, and performance in their marine environments.



Absorbency up to
20 times its weight

Oil Absorbent Boom

Ideal for emergency spill and daily clean up of oils

With its highly absorbent polypropylene composition, oil absorbent booms repel water and float once fully saturated, making them ideal for marine environments.

Application: Good for use in absorbing small spills. Ideal for creating a barrier in the event of a spill to prevent the spill from migrating away from the source, perfect for creating a barrier when oil spills have entered a watercourse to prevent the spill from spreading. Also suitable for daily clean up of oils with no sweeping or shoveling required.

Product Features:

- Highly absorbent and flexible
- Large surface coverage
- Exceptional material strength
- Eliminates dripping due to high retention absorbency
- Quick absorbing action
- Environmentally friendly material
- Can be incinerated



Absorbency up to
20 times its weight

Oil Absorbent Sheet

Made of a single layer of hydrophobic oil-only polypropylene that can absorb up to 20 times its own weight.

Application: They are used like wipes and are very versatile for reaching hard-to-reach areas. In the event of a spill, booms will contain the liquid, and sheets will absorb the trapped liquid.

Product Features:

- Has less tint and high abrasion resistance
- Highly absorbent and flexible
- Large surface coverage
- Exceptional material strength
- Eliminates dripping due to high retention absorbency
- Quick absorbing action
- Environmentally friendly material
- Can be incinerated



Absorbency up to
20 times its weight

Oil Absorbent Pillow

Made of polypropylene and only absorbs oil, leaving a clean and oil-free water surface.

Application: Capable of absorbing a large amount of liquid spillage due to its shape. Ideal for containing high-volume spills by placing it on top of pools of fluid and in sloped areas where fluids collect to prevent further spreading.

Product Features:

- Highly absorbent and flexible
- Large surface coverage
- Exceptional material strength
- Eliminates dripping due to high retention absorbency
- Quick absorbing action
- Environmentally friendly material
- Can be incinerated



Absorbency up to
20 times its weight

Oil Absorbent Roll

Perfect for general everyday use and emergency spill clean-up of petroleum-based oils, solvents and other non-water soluble liquids.

Application: Can be cut or torn into appropriate sizes and be placed around industrial equipment to protect floors from oil or chemical leakage.

Product Features:

- Perforations allow you to use only what you need
- Highly absorbent and flexible
- Large surface coverage
- Exceptional material strength
- Eliminates dripping due to high retention absorbency
- Quick absorbing action
- Environmentally friendly material
- Can be incinerated





A-SORB Oil Absorbent Spill Kits Quick response to oil spills

We provide different sets of Oil Absorbent Spill Kit, each comprising of a hard wearing yellow HDPE bin containing a variety of oil-only absorbents for addressing shipboard oil spills.

Application: Designed to be used on sealed surfaces, such as workshop floors, with oil-only sheets as the primary absorbent.

Product Features:

- Suitable for most oils
- Fast response to critical accidents
- Improve worker productivity and efficiency by placing spill kits around your facility close to areas prone to spills



Oil Absorbent Spill Kit (40L)

HDPE Bin Size: L520mm x W420mm x H650mm

50 Pcs Oil Absorbent Sheet (430mm x 480mm)
3 Pcs Absorbent Boom (76mm x 1.2m)
4 Pcs Absorbent Pillow (170mm x 380mm)



Oil Absorbent Spill Kit (120L)

HDPE Bin (With 2 Wheels) Size: L570mm x W470mm x H940mm

150 Pcs Oil Absorbent Sheet (430mm x 480mm)
10 Pcs Absorbent Boom (76mm x 1.2m)
10 Pcs Absorbent Pillow (170mm x 380mm)
1 Pair Oil Sorbent Gloves



Oil Absorbent Spill Kit (7 Barrel)

HDPE Bin (With 4 Wheels) Size: L1370mm x W760mm x H1180mm

350 Pcs Oil Absorbent Sheet (430mm x 480mm)
10 Pcs Absorbent Boom (76mm x 1.2m)
10 Pcs Absorbent Pillow (170mm x 380mm)
1 Roll Absorbent Roll (965mm x 20m)
1 Pair Oil Sorbent Gloves
40 Pcs Transparent Disposable Bag (24" x 36")



Oil Absorbent Spill Kit (12 Barrel)

HDPE Bin (With 4 Wheels) Size: L1370mm x W1020mm x H1290mm

1000 Pcs Oil Absorbent Sheet (430mm x 480mm)
10 Pcs Absorbent Boom (76mm x 1.2m)
20 Pcs Absorbent Pillow (170mm x 380mm)
2 Roll Absorbent Roll (965mm x 20m)
1 Pair Oil Sorbent Gloves
40 Pcs Transparent Disposable Bag (24" x 36")



Cotton Rag & Waste 100% Cotton

We repurpose and recycle cotton rags and waste from used cotton t-shirts and textile waste facilities, which are superior to paper towels in terms of cleaning power.

Application: Ideal for cleaning heavy machinery, oil tanks, ships, industrial workshops, car factories, and other types of cleaning jobs.

Product Features:

- Low-linting material
- Soft, non-abrasive and will not scratch surfaces
- Strong water and oil absorbency
- Recycled eco-friendly product
- No metal objects, ensuring safe use
- Convenient-sized bags, easy to transport and store



Available In:
20Kg / 25Kg



Available In:
20Kg / 25Kg



Available In:
20Kg / 25Kg

100% White Cotton Rag

This grade has no color or print. The white color of these rags highlights absorbed dirt, grease, oil, paint, ink, and solvents.



90% White Cotton Rag

This grade may have some print. The white color of these rags highlights absorbed dirt, grease, oil, paint, ink, and solvents.



Light Color Cotton Rag

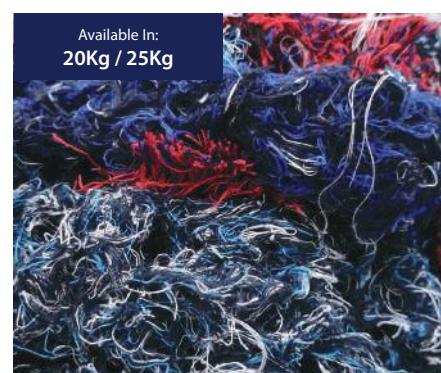
Colored rags offer a price savings compared to the white color options. This is a great all-around general-purpose wiping rag.



Available In:
20Kg / 25Kg



Available In:
20Kg / 25Kg



Available In:
20Kg / 25Kg

Dark Color Cotton Rag

Colored rags offer a price savings compared to the white color options. This is a great all-around general-purpose wiping rag.



White Cotton Waste

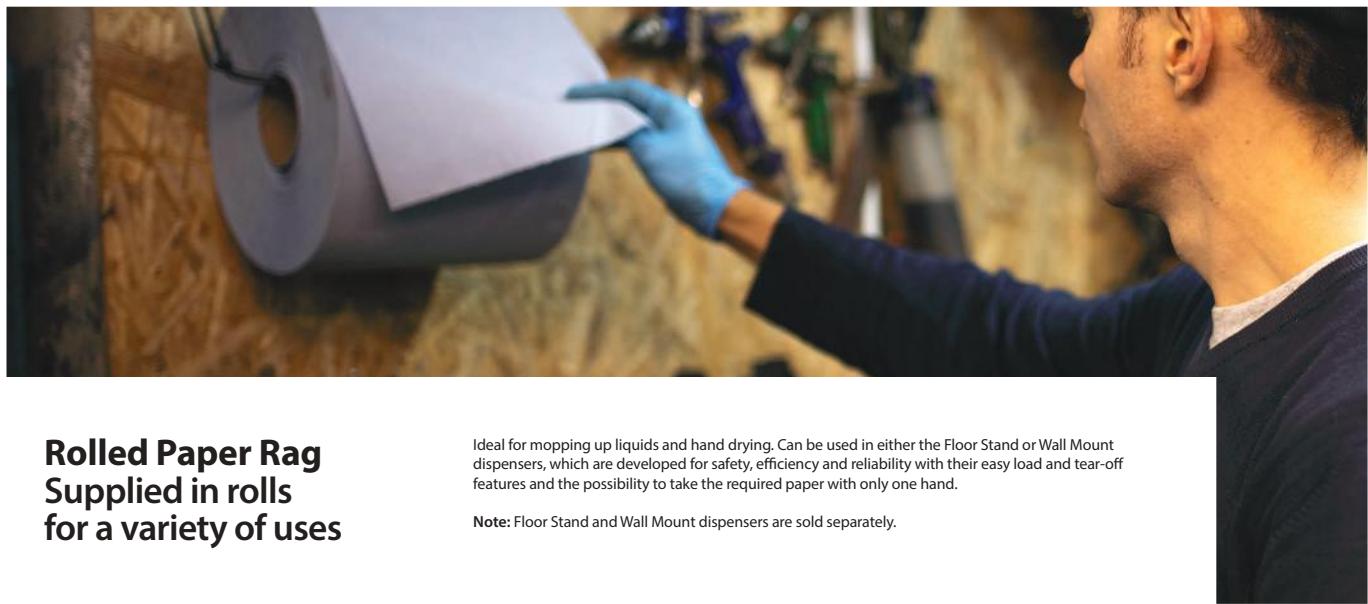
Utilizes recycled cotton threads from textile waste and blended to provide maximum absorption. The white color of these cotton waste highlights absorbed dirt, grease, oil, paint, ink, and solvents.



Dark Color Cotton Waste

Utilizes recycled cotton threads from textile waste and blended to provide maximum absorption. Colored cotton waste offer a price savings compared to the white color options.





Rolled Paper Rag Supplied in rolls for a variety of uses

Ideal for mopping up liquids and hand drying. Can be used in either the Floor Stand or Wall Mount dispensers, which are developed for safety, efficiency and reliability with their easy load and tear-off features and the possibility to take the required paper with only one hand.

Note: Floor Stand and Wall Mount dispensers are sold separately.



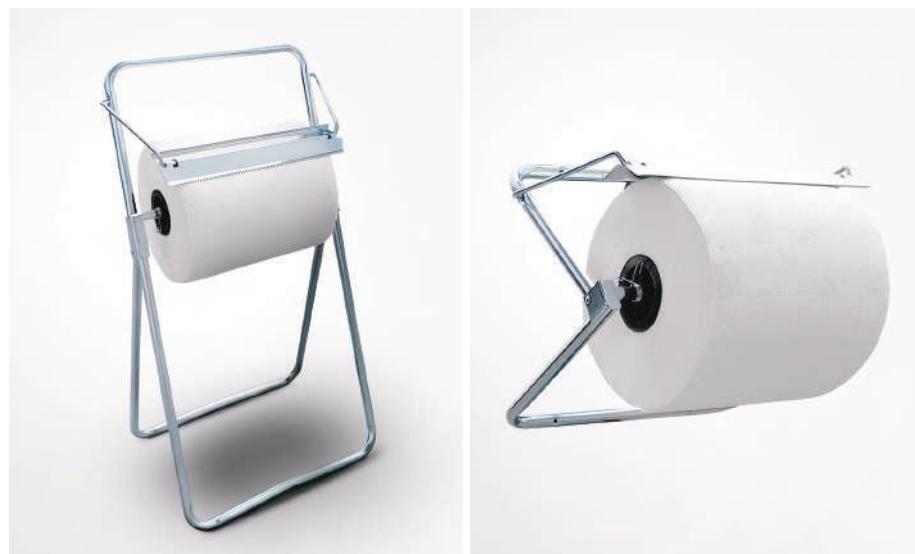
Rolled Paper Rag

A sanitary paper wiping rag supplied in rolls for a variety of uses. There are many types available but the most common type have been selected and described below with respective specifications.

Application: Made with extra absorbent paper, excellent for drying hands and cleaning up spills.

Size Available:

- E-Tork (2-Ply), size: 320mm x 230m
- A-Tork (2-Ply), size: 290mm x 240m
- Mini-Tork (Single-Ply), size: 220mm x 120m



Floor Stand Dispenser For Rolled Paper Rag

Designed for use with A/E/M-Tork rolled paper rags. Metal cutter comes integrated.

Application: Particularly suitable for places with continuous need for paper (Petrol Stations, Workshops, Industry, etc).



Wall Mount Dispenser For Rolled Paper Rag

Designed for use with A/E/M-Tork rolled paper rags. Metal cutter comes integrated.

Application: To be wall mounted by means of screws and wall plugs. Suitable for restaurants (kitchen) and factories.





Mineral Sponge Granular Absorbent

Specifically sized zeolite granules, capable of absorbing up to 75% of its own weight of liquid.

Application: Mainly used as an absorbent for spills of oil/fuel and liquid chemicals.

Product Features:

- Does not break down and become slippery when wet
- Capable of absorbing up to 50% more than kitty litter and fluids stay locked inside
- Absorbs immediately on contact
- Absorbs odours and vapours as well as liquids
- De-dusted to make handling and clean up easy and safer
- Meet EPA requirements for solid waste disposal
- Contains no chemicals, safer than clay based granules



Oil Spill Dispersant

A biodegradable hydrocarbon based product with high dispersing efficiency and low toxicity.

Application: Ideal for dispersing and clearing accidental oil spills on deck and in the sea. Can also be used as a tank cleaner for removal of heavy oil contaminations like crude oil, paraffines, etc.

Product Features:

- Biodegradable and very low toxicity to marine life
- Rapidly converts hydrocarbons into very fine emulsions accelerating the breakdown of the oil by marine bacteria



Walnut Shell

Made from crushed walnut shells in accordance with industrial standards soft enough not to damage and oxidizer the turbocharger material.

Application: Efficiently removes carbon scale. Suitable for use in cleaning up dirt sticks from nozzles and blades of turbocharger.

Grit Size Available: #8, #12-16, #20

Product Features:

- Clean surfaces without damaging underlying materials
- Can be used to absorb contaminants
- Renewable and environmental friendly
- Re-usable
- Economical



Sodium Thiosulphate

Sodium Thiosulphate powder is used to de-chlorinate ballast waters prior to discharge to the environment.

Application: For use as a dechlorinating agent to remove excess chlorine from water that has been treated with chlorine as a disinfectant. This is important because excess chlorine can be harmful to marine life and can also cause corrosion and other damage to equipment on board ships.

Product Features:

- High purity of 99%
- Effective de-chlorination agent
- Easy to dissolve in water



Oxalic Acid (99.6%)

Oxalic Acid (99.6%) is a colourless crystalline solid that forms a colourless solution in water and is used for a variety of cleaning applications.

Application: Suitable for industrial cleaning applications, such as the removal of stains and rust from metal, equipment, clothing, ship hulls, pipelines, and oil tanks. Can also be used for wood bleaching.

Product Features:

- High purity of 99.6%
- Effective cleaning agent
- Easy to dissolve in water
- Sustainable and eco-friendly alternative to harsh chemicals





Hand Cleaner (Orange)

Citrus scented hand cleaner formulated to be gentle, biodegradable cleaners and emollients.

Application: Suitable for use in schools, childcare centre, institutional, food processing plants, garages, hotels, schools, camps, etc.

Product Features:

- Can be used without water
- Lather-free
- Biodegradable
- Regular use will not dry, peel or irritate normal skin
- Non-corrosive to metals in soap dispensers



Hand Wash (Orange)

Citrus scented hand soap for effective cleaning of dirt and oily grime.

Application: Suitable for use in schools, childcare centre, institutional, food processing plants, garages, hotels, schools, camps, etc.

Product Features:

- Regular use will not dry, peel or irritate normal skin



12L/20L Pedal Flip Bin (Plastic Inner)

A stylish waste container constructed from stainless steel with plastic inner bucket and an open bottom.

Application: Corrosion-resistant and ideal for waste collection in kitchens or other indoor areas within marine environments.

Product Features:

- Quiet, slow closing lid
- Hands-free usage
- Removable inner plastic bucket
- Large handle for easy transport
- Fingerprint-resistant coating



12L/20L Pedal Flip Bin (Stainless Steel Inner)

A stylish waste container constructed from stainless steel with stainless steel inner bucket and a closed bottom.

Application: Corrosion-resistant and ideal for waste collection in kitchens or other indoor areas within marine environments.

Product Features:

- Quiet, slow closing lid
- Hands-free usage
- Removable inner plastic bucket
- Large handle for easy transport
- Fingerprint-resistant coating



240L Garbage Can (Galvanized Steel)

Waste containers constructed from galvanised steel with a powder-coated body, each set comes with one opening lid and two wheels. Available in multiple colors to facilitate waste categorization.

Application: Perfect for containing smaller volumes of general or recyclable waste. Suitable for marine and other industrial settings.

Product Features:

- High durability
- Corrosion resistant
- Can be easily pushed and pulled



240L Garbage Can (Galvanized Steel)

Waste containers constructed from galvanised steel with a green powder-coated body, the bin features a foot pedal-assist lid and two wheels.

Application: Perfect for containing smaller volumes of general or recyclable waste. Suitable for marine and other industrial settings.

Product Features:

- High durability
- Corrosion resistant
- Equipped with foot pedal for easier opening of lid
- Can be easily pushed and pulled





660L/1100L Garbage Can (Galvanized Steel)

Waste containers constructed from galvanised steel with a green powder-coated body, each set comes with two opening lids and four wheels.

Application: Perfect for containing or segregating larger volumes of general or recyclable waste. Suitable for marine and other industrial settings.

Product Features:

- High durability
- Corrosion resistant
- Can be easily pushed and pulled



Non-Spark Fiberglass Dust Pan

Non-spark safety scoops reduce the risk of sparks during a spill clean-up.

Application: Used for dispensing ground and floor absorbent onto a spill.

Product Features:

- Made from high-grade polypropylene
- Lightweight, easy to use
- Non-spark and non-stick
- Resist to oils, fuels and most chemicals
- Can be used/stored in temperatures from -30°C to + 80°C
- Excellent wear resistance
- Rot and rust proof



Non-Spark Fiberglass Square Shovel

Non-spark safety shovels reduce the risk of sparks during a spill clean-up.

Application: The deep pan and large blade provides extra capacity and is ideal for handling bulky but lightweight materials.

Product Features:

- Made from high-grade polypropylene
- Lightweight, easy to use
- Non-spark and non-stick
- Resist to oils, fuels and most chemicals
- Can be used/stored in temperatures from -30°C to + 80°C
- Excellent wear resistance
- Rot and rust proof



Other General Deck Items

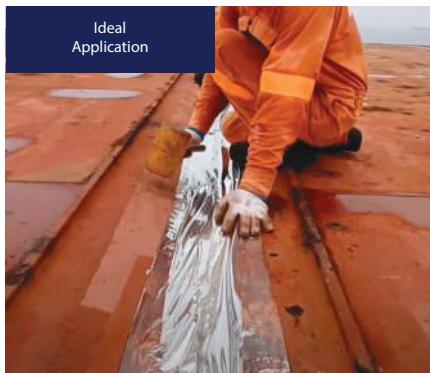
- **Marine Tapes**
- **Pneumatic & Electrical Tools**
- **Miscellaneous Deck Items**

Broad range of essential marine tapes and powerful tools for protecting cargo and ship maintenance.



Aste® offers marine tapes for hatch sealing, anti-corrosion, leak prevention, as well as mechanical tools and many other useful deck items designed to address specific issues on a ship's deck.

Whether it's protecting against water intrusion, or removal of corrosion and unwanted elements, these products collectively play a significant role in maintaining the integrity of the vessel and ensuring the protection of both the crew and cargo.



Real Seal® Hatch Cover Tape Provides maximum cargo protection

Real Seal® Hatch Cover Tape is composed of PVC backing and a rubberized mastic reinforced by woven polyester.

Application: The tape provides excellent watertight sealing for cargo hatch covers and can withstand all kinds of weather and sea conditions. It is also suitable for use on tank covers, weather deck doors and metal pipe protection from corrosion conditions.

Available in Roll and Strip types.

Product Features:

- Easy to apply
- Good adhesion on hot and cold weather
- No remains on removal



Butyl Sealing Tape

A self-adhesive sealing tape made from butyl rubber compound and protected by a reinforced aluminium film, making it highly resistant to ageing and oxidizing caused by atmospheric and chemical agents. Highly adhesive to all materials and especially to plastic, glass, steel, polycarbonate and wood.

Application: Widely used in roofing of building, surface crack, window, boat sealing, roof patching, and repairing of small leaks.

Product Features:

- Rapid and easy cold application
- Waterproof and self-sealing
- Resistant to ageing and UV-rays
- Excellent adhesion at low temperatures



Anti-Splashing Tape

Constructed of an aluminium/glass cloth laminate coated with a high temperature silicone adhesive. Designed to prevent pipe leakage and any fire outbreak caused by splash of combustible oil from oil pipes connected to an engine or a generator in a ship's engine room.

Application:

- Fuel oil injections pipes, fuel oil service pipes, fuel oil valve cooling oil pipes attached to diesel engines
- Lube oil service pipes and hydraulic oil pipes attached to diesel engines
- Flammable oil pipes
- Flammable oil pump and strainer
- Fuel oil heater



Product Features:

- Resilient to high pressure
- Easy installation with no liner



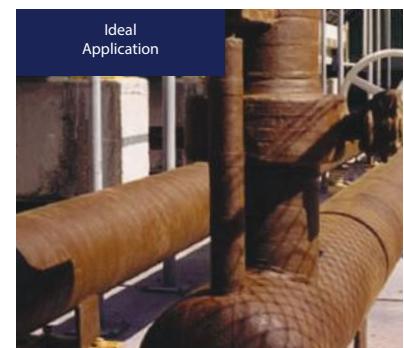
Anti-Corrosive Tape

Composed of synthetic fabric, filled with petrolatum compound, inert fillers and special anti-corrosion agents for the protection of pipes, valves, flanges, couplings, pilings and other steel structures. It has a high degree of conformability which allows for application over a wide temperature range.

Application: Specifically developed for the protection of exposed surfaces or buried pipes, rods, valves and metal from corrosion.

Product Features:

- Non-hardening and non-cracking
- Highly resistant to acid, alkalis, and salts
- Long-term corrosion protection, sealing, and waterproofing
- Stable composition over a wide temperature range
- Compatible with irregular surfaces
- Easy to apply



Zinc Tape

A highly effective anti-corrosive tape developed with a base film of adhesive molten galvanized zinc. Zinc coated layer will not be infiltrated by water, gas, etc. and will not age from ultraviolet rays, so corrosion does not develop from the inner layer. Zinc coating on this tape is also thick and uniform, and it lasts longer than a molten galvanized coating.

Application: Can be used in bridges, light posts, pipelines, masonry supports, marine structures, hinges, and bolted connections, and so on.

Product Features:

- Economical
- Easy to apply
- Long lasting



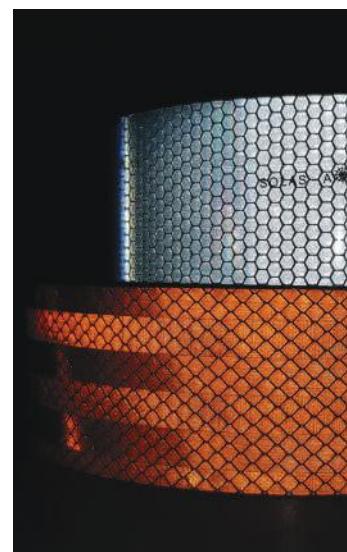
Anti-Slip Tape

A tape that provides extra friction for surfaces that might be slippery and hence reducing risk of slips and falls. It can adapt to almost all surfaces, wood/tile floors, smooth concrete floors, marble surfaces, and stainless steel surfaces.

Application: Commonly installed on slippery surface like floor (indoor, outdoor, kitchens etc) or stairs to help prevent accidental slips and trips.

Product Features:

- Easy to install
- Strong adhesive backing
- Versatile
- Waterproof
- Durable
- Non-permanent



Reflective Tape

A self-adhesive tape containing retro-reflective properties. It reflects light to increase the visibility of life-preserving equipments involved with water-based activities, such as boats or life jackets at night time.

Application: Specifically designed to enhance the visibility of lifejackets, life rafts, or life boats.

Product Features:

- Designed for the offshore and marine industries and have a long lifespan
- Works well whether wet or dry
- Adheres readily even on curved surface
- Easy to apply





Pneumatic Jet Chisels

An air operated tool with needle return mechanism for chiseling or smoothing welds, castings and other materials.

Available in 4 different models:

- PNS-16: For light duty
- PNS-20: For general duty
- PNS-24: For all purpose
- PNS-28: For heavy duty

Application: The needles are independent from one another, suitable for chipping rust, old paints, welding scales, casting scales and various fouling from irregular, angular or bent surfaces.

Product Features:

- Compact and lightweight
- Automatically adjust to the contour of any surface
- Can reach into corners, curvatures, and uneven surfaces



Spare Needles For Jet Chisel

Flat tip reduces marking on metal surfaces and gives a polishing effect.

Applications: Used with pneumatic jet chisel, for de-scaling, cleaning, rust removal, paint and weld slag from hard surfaces.



Spare Needle Supporters For Jet Chisel

Applications: Improves the performance and efficiency of the jet chisel by ensuring the needles are securely attached and aligned.



Pneumatic Chipping Hammers Efficient construction work in limited space

Hex Shank Type

Powerful handheld hammer for efficient construction work in limited space. This model uses hexagon-type chisel shanks.

Application: Suitable for billet chipping, general chipping and the removal of calking/weld flux, paint and rust.



Round Shank Type

Powerful handheld hammer for efficient construction work in limited space. This model uses hexagon-type chisel shanks.

Application: Suitable for billet chipping, general chipping and the removal of calking/weld flux, paint and rust.





Pneumatic Scaling Hammer (Single-Piston)

A single-piston air-operated tool ideal for the removal of thick scale, heavy corrosion and hard coatings.

Application: Delivers rapid vibratory action which effectively removes old paint, rust and scale from structural steel, boilers, tanks and castings.

Product Features:

- Air hose nipple is furnished as a standard accessory
- Long Handle for reduced fatigue, increased control and long reach
- Can reach into corners, curvatures, and uneven surfaces

Ideal Application



Pneumatic Scaling Hammer (Triple-Pistons)

A triple-pistons air-operated tool ideal for the removal of thick scale, heavy corrosion and hard coatings.

Three piston heads improve efficiency for larger areas.



Turbo Air Rotary Gun (Paint Removal)

Innovative and powerful air motor driven rotary gun for use in paint removal projects. Provides a max pressure of 2800 bar and max water flow rate of 30 LPM.



Slow RPM Gun (Concrete Demolition)

Innovative and powerful air motor driven rotary gun for use in concrete demolition projects. Provides a max pressure of 2800 bar and max water flow rate of 30 LPM.





Electric Deck Scaler

Electric-powered scaling tool designed for removing surface materials over large areas.

Application: Ideal for large deck areas and tank bottoms, this tool effectively removes rust, scale, paint, adhesives, and other deposits from steel and concrete surfaces, preparing them for re-coating.

Product Features:

- Cover large areas efficiently
- Push to maneuver, increases operator comfort and safety
- Supplied complete and ready to operate
- Use handle wheel to adjust distance between the ground and cutter drum

Standard Accessories (Included):

- Screwdriver
- Spare Belts
- Spanners
- Hexagon Keys
- Instruction Manual



**Supplied complete and ready to operate
with Cutter Drum Assembly (IMPA Code: 590419)**

The cutter drum can be replaced with a different type to meet application requirements or with a new one when worn out.



Pneumatic Vacuum Cleaner

A compact and lightweight industrial vacuum cleaner which works on compressed air. Each set includes a pail can, oil resistance hose, and an oil stopper which automatically stops suction when the receiver becomes full.

Application: Capable of cleaning off water, oil, and bottom sludge as well as dust and metal chippings.

Product Features:

- Works on compressed air
- Portable and lightweight
- Uses a pail can (outer diameter 30cm) to collect dust and waste
- Automatic shut off when drum is full





SEMPPO

High Pressure Airless Paint Sprayer

A high pressure pump unit powered by an air motor, provides an effective method for applying heavy-duty marine coatings.

Airless spraying is essential for applying heavy-duty marine coatings and is used in 99% of marine spray jobs due to the chemistry of 100% volume solid paints requiring high-ratio pumps.

Application: Suitable for painting vast area of ships, steel structures, automobiles, railway vehicles, etc.

Product Features:

- Cover large areas efficiently
- Ensures even paint coverage
- Reduces wastage of paint, with ability to control spray flow and pattern
- Cart style, easy maneuvering

Standard Accessories (Included):

- Airless Paint Spray (Hand Gun)
- Airless Paint Nozzle
- High Pressure Hose (13m)
- Spare Parts
- Hook Spanners
- Inner Hexagon Spanners
- Instruction Manual

Ideal Application



Accessories (Separate Order)



Paint Spray Hose

Application: Used with airless spraying machine for maintaining the pressure of paint flowing through to ensure an even application.

Available Length: 10/15/20/30m

Accessories (Separate Order)



Airless Paint Spray Hand Gun

517 nozzle and nozzle seat are included.

Application: Handheld spray gun widely used with airless spraying machine for spray painting.



Accessories (Separate Order)



Airless Paint Spray Pole Gun

517 nozzle and nozzle seat are included.

Application: Attached directly to an airless gun making them ideal for spraying ceilings, overhangs and decks.

Available Length: 90/150/180cm



Accessories (Separate Order)



Airless Paint Nozzle

Type 517 nozzle for airless paint spray gun. Each set has an airless sprayer nozzle and a nozzle seal.

Application: Suitable for small to medium-sized and large area spray works.

To be used with Nozzle Seat (Sold Separately)



Accessories (Separate Order)



Airless Paint Nozzle Seat

Application: Used for preventing a person coming into contact with the tip when spraying and to hold the nozzle in place.

To be used with Nozzle (Sold Separately)





High Pressure Water Blaster

Electric powered cleaning tool constructed for the toughest cleaning and surface application tasks on board. Comes with CE Certificate.

Application: Ideal for removal of hard dirt, grease oil, embedded crystallized salt, barnacles and marine growth, soil and clay, rust flakes and corroded paint from ship hulls, equipments, docks, and other marine surfaces.

Product Features:

- Cover large areas efficiently
- Cart style, easy maneuvering
- Easy access to pump for servicing

Standard Accessories (Included):

- Spray Gun with Lance
- 0 Degree Straight Jet Nozzle
- 15 Degree Flat Jet Nozzle
- High Pressure Hose (20m)
- Electrical Cable (7m)
- Water Inlet Hose (3.5m)
- Water Inlet Filter
- Boost Pump
- Instruction Manual

Ideal Application



Accessories (Separate Order)



High Pressure Hose With Coupling

High pressure hoses can be used to deliver large amounts of water at high pressures in heavy machinery and equipment. Comes with a M22 coupling for connecting two pressure hoses together.

Available Length: 20m/30m



Vulcan Hold Cleaner (NVP-25G)

A rotary pump type high solid water blaster for ship's cargo hold cleaning.

Application: Crew is able to blast the powerful water cannon from the cargo hold bottom to the cargo hold top side and remove dirt, flaky rust, and residue easily.

Product Features:

- Long outreach
- Effective for lofty cargo hold

Ideal Application





Pneumatic Diaphragm Pumps (Aluminium)

An Air-Operated Double-Diaphragm pump (AODD) is a type of positive displacement pump mainly used for transferring a wide range of products from water to highly solid-laden liquids with compressed air.

Application: Casing is constructed from aluminum, they are more suitable for oils, diesel, and non-corrosive fluids. Ideal for bilge evacuation or when pumping oil out of barrels, seawater to wash the deck, or sludge out of the cargo area.

Product Features:

- Seal-less mechanicals
- Ease of maintenance and repair
- Dry-running without damage
- Portable
- Self-priming
- Easy operation



Pneumatic Diaphragm Pumps (Polypropylene)

An Air-Operated Double-Diaphragm pump (AODD) is a type of positive displacement pump mainly used for transferring a wide range of products from water to highly solid-laden liquids with compressed air.

Application: Casing is constructed from polypropylene, which is generally better for corrosive operating environments. Ideal for transfer, filling, recirculation and batching of harsh chemicals that might corrode metal pumps in chemical, industrial and water/wastewater treatment markets.

Product Features:

- Seal-less mechanicals
- Ease of maintenance and repair
- Dry-running without damage
- Chemical resistant
- Lightweight and portable
- Self-priming
- Easy operation





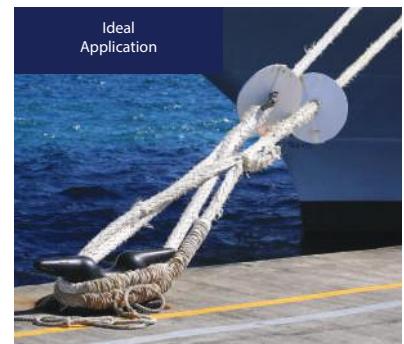
Rat Guard

A circular metal shield for a ship, specifically designed to prevent rats from boarding the ship.

Application: It is fastened to the mooring lines of a vessel, yacht, boats and motor cruisers which are connected to a quay.

Product Features:

- Simple Design
- Time Saving
- Labour Saving



Pallet Wrap

A highly stretchable clear plastic film that is wrapped around items. The elastic recovery keeps the items tightly bound. Available in sizes of 500mm or 100mm.

Application: Commonly used in shipping pallets to keep products and boxes locked-in during shipping.

Product Features:

- Remarkable stretchability
- High resistance to puncture and tear
- Holds firmly without any adhesive



Scupper Plug

Scupper plugs are used for closing drainage holes to prevent oil spills or other contaminant spills on a ship. Consist of stainless steel material and oil resistant rubber (CR) parts.

Application: Easy to use, insert plug in the drain hole and tighten handle until slight resistance is felt, the rubber plug will be expanded and held firmly in place.

Size Available:

- 45mm
- 52mm
- 65mm
- 85mm
- 90mm
- 110mm
- 135mm
- 165mm



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Aste Global Pte. Ltd.
No.1 Tuas Link 1
Singapore 638583
tel. +65 6862 1212
fax +65 6897 9959
info@aste.com.sg

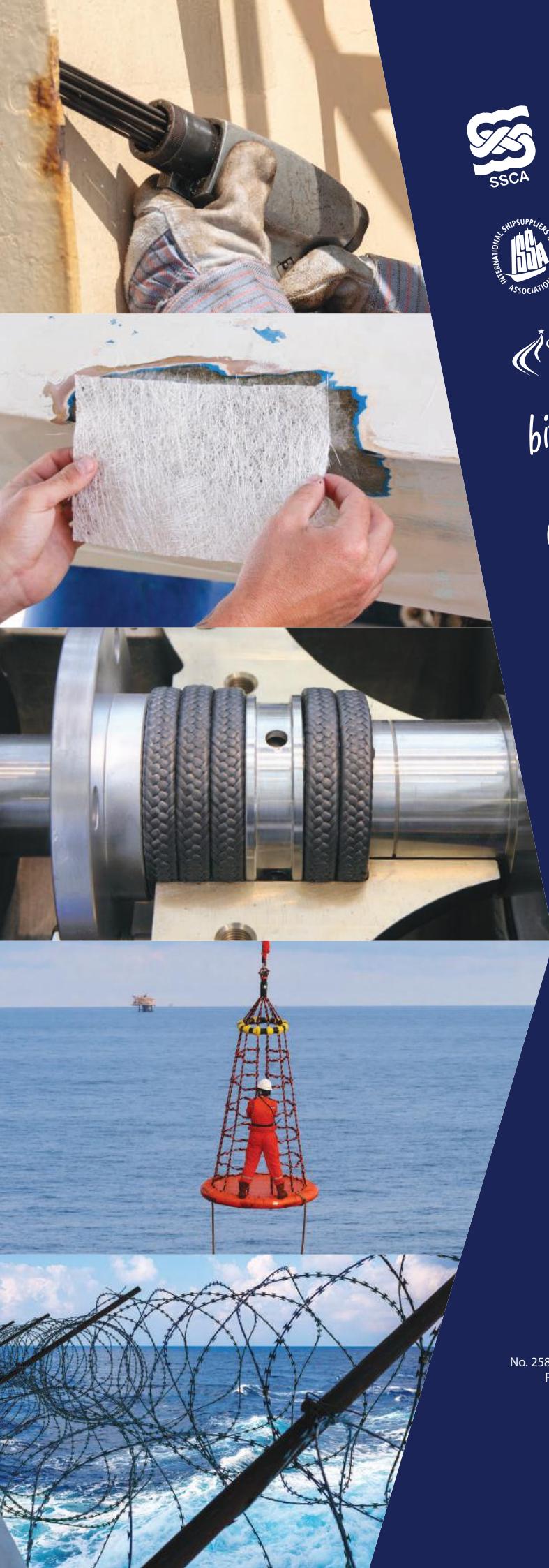
Aste Trading (Europe) B.V.
Plompertstraat 50
The Netherlands
3087 BD Rotterdam
tel. +31 (0)10-7470077
fax +31 (0)10-2687006
info@aste-trading.com

Aste (Shanghai) Co. Ltd.
No. 258 Minfeng Road Building 1
Room 103 Pudong District
Shanghai China 201209
tel. +86 021-50183908
fax +86 021-50183909
shanghai@aste-sh.com



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Aste (Shanghai) Co. Ltd.

No. 258 Minfeng Road Building 1
Room 103 Pudong District
Shanghai China 201209

tel. +86 021-50183908
fax +86 021-50183909
shanghai@aste-sh.com

Aste Trading (Europe) B.V.

Plompertstraat 50
The Netherlands
3087 BD Rotterdam

tel. +31 (0)10-7470077
fax +31 (0)10-2687006
info@aste-trading.com

Aste Global Pte. Ltd.

No.1 Tuas Link 1
Singapore 638583

tel. +65 6862 1212
fax +65 6897 9959
info@aste.com.sg