



Wire Rope Corrosion Control - Aerosol

Technical Data Sheet

Date of Preparation: December 23, 2025

DESCRIPTION

S2S Wire Rope aerosol is a corrosion inhibitor designed to penetrate wire ropes, cables, and stranded assemblies to provide internal and external corrosion protection. It delivers a fluid thin film that migrates into rope strands and contact points to displace moisture, reduce friction, and inhibit corrosion in demanding environments.

The product forms a persistent, self-healing protective film that helps maintain flexibility and smooth operation while reducing wear caused by moisture, salt, and abrasive contamination.

FEATURES

- Corrosion inhibitor for wire ropes and stranded cable systems
- Fluid thin film penetrates into strands and contact points
- Displaces water and oxygen
- Provides lubrication to reduce internal wear and abrasion
- Helps maintain rope flexibility and smooth operation
- Reduces corrosion in internal and external rope surfaces
- No curing time required
- Suitable for ferrous and nonferrous metals
- Provides dielectric protection to help reduce galvanic interaction and stray-current-related corrosion

USES

• Wire ropes and cables • Cranes, hoists, and winches • Mooring and towing lines • Drilling and rigging equipment • Elevators and lifting systems • Suspension and support cables • Marine, industrial, and construction applications

APPLICATION

1. Shake can well before use.
2. Remove loose dirt, debris, and heavy contamination prior to application.
3. Apply by spraying evenly onto the wire rope or cable from an appropriate distance. For best penetration, apply while the rope or cable is moving or being spooled. Ensure adequate coverage of the full rope circumference.
4. Apply additional product as needed for heavily corroded or high-wear areas.
5. Inspect periodically and reapply as needed to maintain protection.

REMOVAL

The protective film does not typically need to be removed. If removal is desired, wash with a high-pH detergent and water.





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DISPOSAL

Dispose of contents and container in accordance with applicable regional, national, and local laws and regulations.

STORAGE

Store in a cool, well-ventilated place away from heat and ignition sources. Shelf Life 3 years.

TECHNICAL CHARACTERISTICS

TYPICAL CHARACTERISTICS — NOT SPECIFICATIONS

- Film type: Fluid thin-film corrosion inhibitor
- Film behavior: Self-healing; penetrative
- Corrosion protection mechanism: Moisture displacement and lubricating barrier
- Lubrication function: Reduces internal friction and wear
- Electrical behavior: Provides dielectric protection to help reduce stray-current-related corrosion
- Cure time: None

AEROSOL SAFETY INFORMATION

- Flammable aerosol: Category 2
- Pressurized container; do not puncture or incinerate

AVAILABLE PACKAGING

12 oz / 340 g

6.3 oz / 180 g

All information on this data sheet is based on testing and product knowledge by Valkyrie Enterprises. All products should be tested for suitability for a particular application prior to use. Valkyrie Enterprises makes no representations or warranties of any kind concerning this data.

S2S is a  VALKYRIE owned and distributed product

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DESCRIPTION

S2S Wire Rope Corrosion Control is a thin-film penetrant and lubricant formulated to protect wire ropes and cables from internal and external corrosion. It penetrates to the core of the rope, coating internal strands to provide long-term lubrication, corrosion protection, and flexibility.

S2S Wire Rope Corrosion Control can be applied by roller, brush, spray, or immersion. It can be applied to damp, painted, or rusted surfaces and requires no sandblasting or curing time.

FEATURES

- Low VOC formulation
- Polar bonds to metal surfaces
- Penetrates and lubricates to the core
- Thin-film penetrant designed for wire rope and cable applications
- Reduces wear by resisting dirt and abrasive contamination
- Non-tacky film that does not flake or peel

USES

- Cranes • Winches • Hoists • Mooring lines • Towing wire ropes • Drilling rigs
- Suspension bridges • Guy wires • Wire rope slings • Post-tension cables • Rigging • Cable systems

APPLICATION

Shake or stir product before use.

1. Calculate product requirement. Each gallon will cover approximately 200 sq. ft. Typical coverage varies by surface condition and film thickness. For heavily rusted or porous surfaces, additional product may be required.
2. Prepare the surface by removing loose dirt, debris, and degreaser. No sandblasting is required. The product may be applied to damp, rusted, or painted surfaces.
3. Apply evenly by spray, brush, roller, or immersion. For best penetration, apply while the rope or cable is being spooled or moving.
4. For severe environments, a topcoat of S2S Wire Rope Corrosion Control may be applied to seal the exterior and extend service intervals.

Inspect annually and reapply if the protective film appears dry or diminished.

PERFORMANCE TESTING

- Exhibits excellent corrosion protection in humidity-prone environments (ASTM D665).
- Exhibits excellent load-carrying and anti-wear performance (ASTM D2783).

Supporting technical data is available upon request.





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TECHNICAL PROPERTIES

Typical Properties, Not Specifications

Property	Typical Value	Test Method
Base Type	Petroleum	—
Viscosity	Approx. 30–40 cSt at 40 °C (104 F)	ASTM D2196
Relative Density	0.87 (water = 1) at 15.6 °C (60.1 F)	ASTM D4052
Flash Point	154 °C (309 F)	ASTM D92
Pour Point	–24 °C (–11 F)	ASTM D97
Dielectric Strength	>40 kV	ASTM D877
Burning Characteristics	Does not sustain burning	ASTM D4206
VOC Content	0.1% by weight	—

REMOVAL

The product does not typically need to be removed. If desired, wash with a high-pH detergent and water.

DISPOSAL

Dispose of contents and container in accordance with applicable regional, national, and local laws and regulations.

STORAGE

Store in a well-ventilated place at room temperature.

Shelf life: 3 years.

AVAILABLE PACKAGING

12 oz / 340 g aerosol

6.3 oz / 180 g aerosol

1 gal / 3.78 L

5 gal / 18.9 L

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