



Zerust® Inhibitor Fusion Tape

Technical Data Sheet

Product Description

Zerust® Inhibitor Fusion (ZIF) Tape is a self-fusing, corrosion inhibiting silicone elastomer tape designed to protect pipes, flanges, valves, and other critical components from long-term corrosion, including Corrosion Under Insulation (CUI). It offers easy, cold application with durable bonding and resistance across a wide temperature range. ZIF Tape is a versatile solution that provides comprehensive corrosion protection in challenging environments.

Typical Applications

- Pipelines and equipment under insulation
- High-temperature process piping
- Condensation-prone environments
- Oil & gas, chemical, and power industries
- Metal infrastructure needing corrosion protection without hot work

Key Advantages

- Self-fusing: Forms a durable bond in ~30 seconds without heat or special tools.
- CUI & Component Protection: Safeguards pipes, flanges, valves, and more by delivering inhibitors directly to the surface.
- Translucent & UV-Stable: Built for long-term durability and resilience.
- Elastic & Snug Fit: Minimizes moisture penetration.
- Wide Temperature Range: Effective from -49°F to 392°F (-45°C to 200°C).
- Easy Application & Removal: Minimal surface prep, with no residue left behind.
- Mechanical Protection: Puncture-resistant, preserves underlying paint, and prevents low-pressure leaks.
- Service Life: 10+ years under normal environmental conditions.

Operating Summary

- Typical operating temperature: -49°F to 392°F (-45°C to 200°C).
- Ensure that the equipment, pipe, flange, etc., that is to be protected is dry, clean, and at ambient temperature.
- Wrap ZIF tape over the equipment, pipe, flange, etc., that's to be protected (over the existing coating, if applicable) before installing the thermal insulation.
 - Remove the ZIF Tape backing while applying the tape.
 - Overlap the ZIF Tape when applying, which allows the tape to fuse together.
 - Cut the ZIF Tape with scissors and/or knife after application.
 - Apply pressure to the ZIF Tape for ~30 seconds to allow a durable bond to form.
- Inspect and ensure the area to be protected is fully encapsulated in the ZIF tape.
- To remove, use scissors and/or a knife to cut the ZIF Tape, and the tape can be easily removed without leaving residue.

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product information

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Typical Properties

Property*	2" x 36' Part #: 250-F-00105	4" x 36' Part #: 250-F-00108	12" x 36' Part #: 250-F-00106	16" x 36' Part #: 250-F-00107	Test Method
Product Width	2" (51 mm)	4" (102 mm)	12" (305 mm)	16" (406 mm)	-
Product Length	36' (11 m)	36' (11 m)	36' (11 m)	36' (11 m)	-
Total Thickness	20.0 mil (508 µm)	20.0 mil (508 µm)	20.0 mil (508 µm)	20.0 mil (508 µm)	ASTM D-751
Carrier	Silicone elastomers	Silicone elastomers	Silicone elastomers	Silicone elastomers	-
Government Bond	2.0 min	1.0 min	1.0 min	1.0 min	1.0 min
Dielectric Strength	17.405 kV	17.405 kV	17.405 kV	17.405 kV	ASTM D-149
Tensile Strength	700 min	700 min	700 min	700 min	ASTM D-412
Elongation	300 min	300 min	300 min	300 min	ASTM D-412

* Typical values are not meant to be a specification.

This data sheet provides general guidelines for operation, application, and removal. Please contact a Zerust® representative for more detailed recommendations on specific operation and conditions.

Availability

Contact a Zerust® representative for ordering information.

Part Number	Quantity
250-F-00105	2" x 36' x 20 mil (1 Roll/Case)
250-F-00108	4" x 36' x 20 mil (1 Roll/Case)

Part Number	Quantity
250-F-00106	12" x 36' x 20 mil (1 Roll/Case)
250-F-00107	16" x 36' x 20 mil (1 Roll/Case)

*Product sold in US customary units. Metric units approximate.

Storage

Store in the original packaging in a cool, dry place away from sunlight, with an optimal temperature below 76°F (24°C) and 50% RH for up to one year from the shipment date.

‡ DECLARATION

Corrosion protection claims are based on Northern Technologies International Corporation (NTIC) internal laboratory testing performed under controlled parameters on contaminate-free substrates. Real-world application corrosion protection duration on different substrates will vary and depends on factors such as, but not limited to, the application or use, environmental/ storage conditions, surface cleanliness, type of substrates, and coating thickness (where applicable). The use of the term "Up to" in reference to time is defined as any time duration from zero up to a specified time frame, but in no event beyond the specified time frame. The use of the term "for years" is based on NTIC's experience with its products but is in no way guaranteed. The use of the term "Up to" in reference to volume is defined as any volume from zero up to a specified volume but in no event beyond the specified volume of protection. It is the customer's/user's obligation to evaluate product performance, corrosion protection duration, safety, and suitability for intended use within the scope advised in the data sheet and to comply with all applicable laws and regulations.

LIMITED WARRANTY/DISCLAIMER Warranty is limited to the replacement of a product that fails to meet specifications. For full warranty and disclaimer information, visit www.zerust.com/warranty.

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With over 50 years of experience, Zerust® Integrity Solutions, a division of Northern Technologies International Corporation (NTIC), creates unique inhibitor-based corrosion prevention solutions to serve terminals, pipelines, exploration and production, equipment suppliers, transportation sectors, and more.

Zerust® Integrity Solutions, ZERUST®/EXCOR®, and Natur-Tec® are sister companies under NTIC.

