



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 provides corrosion protection for exposed and insulated assets operating in challenging environments.

Typical Applications

- Pipelines and piping systems under insulation
- Flanges, valves, and bolted connections
- High-temperature process piping
- Field welds and repair areas
- Condensation-prone and moisture-exposed environments
- Offshore, marine, chemical, oil & gas, and power facilities
- Metal infrastructure and industrial assets

Key Advantages

- Corrosion Protection: Helps protect pipes, flanges, valves, and other components by delivering inhibitors directly to the metal surface.
- Embedded corrosion inhibitors provide effective, long-term protection
- Self-fusing: Forms a durable bond in ~30 seconds without heat or special tools.
- Translucent & UV-Stable: Built for long-term durability and resilience.
- Conforming Barrier: Helps minimize moisture intrusion.
- 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.
- Durable Barrier Protection: Puncture-resistant material helps preserve underlying coatings and minimize moisture intrusion.

Operating Summary

- Ensure the equipment, pipe, flange, or surface to be protected is clean, dry, and at ambient temperature during installation.
- Wrap ZERUST® Inhibitor Fusion (ZIF) Tape over the area to be protected (over existing coating, if applicable) prior to installing insulation.
- Remove the backing while applying the tape and maintain tension to ensure a tight, conforming fit.
- Overlap the tape during application to allow it to self-fuse into a continuous protective layer.
- Apply pressure to the wrapped surface for approximately 30 seconds to initiate bonding and ensure proper fusion.
- For some applications, ZERUST® ZIF Guard, a non-inhibiting holding tape, may be used at terminating ends or abrasion-prone areas to help secure the ZIF Tape during installation.
- Inspect the application to confirm the area is fully encapsulated and sealed.
- To remove, cut the ZIF Tape with scissors or a knife and peel away. No heat or chemicals are required.

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product information

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Typical Properties

Properties**	2" x 36'	4" x 36'	12" x 36'	16" x 36'	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	-
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.

Availability

Contact a ZERUST® representative for ordering information.

Product Number	Unit of Measure***	Product Number	Unit of Measure***
250-F-00105	2" x 36' x 20 mil (1 Roll/Case)	250-F-00106	12" x 36' x 20 mil (1 Roll/Case)
250-F-00108	4" 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, under optimal storage conditions 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.

