

Aluminum Barrier Foil

Technical data sheet



PET + Aluminum + Zerust® VCI LDPE Film is a high-performance, multi-layer protective packaging material engineered to provide exceptional corrosion resistance, mechanical strength, and barrier protection. The laminate combines the durability of PET, the impermeability of aluminum foil, and the advanced VCI (Vapor Corrosion Inhibitor) properties of Zerust® LDPE, offering superior multi-metal protection even in demanding environments.

This film is designed for the long-term protection of heavy, large, or complex metal components—including automobiles, machinery parts, aerospace components, tools, and industrial equipment—against moisture, oxygen, and corrosive agents. The aluminum layer provides an excellent barrier against water vapor, oxygen, and UV radiation, while the PET outer layer ensures mechanical toughness and puncture resistance. The inner Zerust® VCI LDPE layer releases corrosion inhibitors that form a molecular-level protective layer on metal surfaces, preventing rust and oxidation during storage or shipment.

For enhanced performance in harsh or outdoor conditions, the laminate can be customized with UV stabilizers, anti-static agents, slip or anti-block additives, and acid-gas blockers. When combined with Zerust® coatings or diffuser products, it delivers extended corrosion protection lasting several years†.

Ideal for use across automotive, aerospace, defense, agricultural, and heavy-equipment industries, this PET + Aluminum + Zerust® VCI LDPE film provides a durable, non-stretch, puncture-resistant, and water-impermeable solution for preserving the integrity and finish of valuable metal assets during storage and transport.

Typical Properties

S.NO	DESCRIPTION	UOM	ACTUAL
1	Tensile Strength MD	Mpa	11.7
2	Tensile Strength CD	Mpa	13.2
3	Elongation MD	%	60.4
4	Elongation CD	%	53.8
5	Seal strength	N/25mm width	37.5
6	WVTR	g/m2/h	1.12
7	OTR	cm3/m2/24H 0.1 MPA	0.99
8	Climatic chamber Test result IEC 68-2-30 and DIN EN 60068-2-30		Pass

* Typical values, not meant to be a specification.

Operating Summary

- Pack only clean and dry parts.
- When packing, the temperature of the metal parts should be about the same as the room temperature to avoid condensed moisture.
- Tightly close packages with tape, heat seal, zip ties, or fold over.

Availability

- Aluminum Foil is a made-to-order product available upon request with options, such as UV and anti-static additives, subject to minimum order quantities.

Protection Info‡

Indoor & Outdoor Protects clean metals for years‡ when used correctly.

Storage

- Store in a cool, dry place and away from sunlight in the original packaging for up to 2 years from the date of shipment.

Disposal

- Check options for recycling and incineration.
- Dispose of in accordance with local, national, and international regulations.

Precautions

Safe for people. This product does not pose a health hazard to users due to

‡ 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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