

# ALLBRIGHT VCI Film

## Technical Data Sheet

ALLBRIGHT VCI Film is a multi-layer corrosion protection packaging material designed to combine the mechanical strength and moisture barrier properties of polyethylene with integrated Vapor Corrosion Inhibitor (VCI) technology. This construction provides enhanced durability, improved puncture resistance, and reduced water vapor transmission compared to conventional single-layer VCI films.

The film releases corrosion-inhibiting molecules that diffuse throughout the enclosed space and form a protective layer on exposed metal surfaces. This barrier helps prevent corrosion caused by moisture, humidity, and airborne contaminants during in-process storage and domestic transit. Upon removal from the packaging, the protective layer dissipates naturally, leaving metal surfaces clean, dry, and ready for immediate use or further processing.

### Typical Properties\*

- Appearance Available in different colors for identification. Typical colors include yellow or green.
- Substrates Available in ferrous, multimetal, and non-ferrous protection formulations to support a wide range of metal protection requirements.

Property	Direction (Machine or Transverse)	ALLBRIGHT VCI Film*	ASTM Test Method
Film Thickness	-	2.75 mil (70 µm)	D-6988
Dart Impact Resistance	-	123 g	D-1709
Tensile Strength at Break	MD	17.9 MPa (2598 psi)	D-882
	TD	21.7 MPa (3149 psi)	
Elongation at Break	MD	694 %	D-882
	TD	863 %	
Water Vapor Transmission Rate	-	4.32 (g/100 in <sup>2</sup> day) @ 38°C, 90% RH	F-1249
Vapor Inhibiting Ability (VIA)	-	Pass	NACE TM0208

*This data sheet provides general guidelines for operation, application, and removal. Please contact your HNTI account representative for more specific recommendations on your particular operation and conditions.*

### Operating Summary

- Pack only clean and dry parts.
- Always wear clean and dry gloves when handling the metal parts to protect them from corrosion-causing fingerprints.
- 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.
- Insert additional VCI materials (such as VCI Kraft Paper) as interleave for added protection in larger and tightly packed or layered packages.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).

### Availability

ALLBRIGHT VCI Film is available in a range of packaging formats, including rolls, sheets, and bags. Custom sizes, thicknesses, and formulations may be available upon request, subject to minimum order quantities. Contact your HTNI representative for detailed specifications and ordering information.

#### Size ranges (width):

- Bags & Tubing:
- 3" - 125" (flat)
- 3" - 150" (gusset)
- Sheeting:
- 3" - 26'

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product information and  
photos

## Protection Info<sup>‡</sup>

Indoor <sup>‡</sup>	Protects clean metals for up to 1 year <sup>‡</sup> when used correctly.
Outdoor <sup>‡</sup>	Not recommended

## Storage

- Store in the original packaging in a cool, dry place away from direct sunlight. Recommended storage conditions are below 85°F (30°C) and below 50% relative humidity (RH). When stored properly, the product has a shelf life of up to 1 year from the shipment date.

## Disposal

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

## Precautions

- Do not use for outdoor protection.
- Safe for people. This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom, and CA WHMIS regulations.
- Refer to the Safety Data Sheet (SDS) for more safety information.

### ‡ 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](http://www.zerust.com/warranty).

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