

# Product Data



P R E M I U M  
**METAL-GUARD®**  
**X-O WRAP Barrier Film**  
*Corrosion Inhibiting, Heavy Duty  
Shrink Film with Ultraviolet Stabilizer*

## Description



Premium Metal-Guard X-O Wrap is a thick, opaque, polyethylene film treated with Daubert Cromwell corrosion inhibitors for ferrous/non-ferrous metals. Shrink film is flexible, UV stable, intended for large and outdoor barrier wrap applications.

Heavy duty Premium Metal-Guard X-O Wrap VCI film provides barrier protection to the packaged components while the corrosion inhibitors in the film provides proactive corrosion protection.

Available in wide widths for covering large and irregularly shaped equipment during storage, shipment and export. Standard in white.

## Features



### ***Proven Daubert Cromwell corrosion inhibitor chemistry***

- Metals protected: Ferrous and non-ferrous metals
- Protection time: 6 months outdoors; 12 months minimum inside dry storage
- Heat-sealable, heavy duty, tear-resistant, durable
- Odorless, non-toxic, recyclable
- Safe and easy to use; no special handling required
- UV stable feature provides extended life to the film, especially when the parts need to be stored outdoors
- Parts remain clean, dry and ready to use without further rework.
- Other Daubert Cromwell VCI products may be added to the packaging for extra corrosion protection (Daubrite® emitters, foam, VCI papers, etc.)

## Typical Applications



Use Premium Metal-Guard X-O Wrap to cover, tarp or shrink wrap:

- Wind turbines & components during outdoor storage
- Aircraft, helicopter and other aerospace machinery
- Engines and automotive parts, including , locomotive part
- Construction and road-building machines
- Seasonal equipment, recreational vehicles stored outdoors during off-season
- Rental equipment on dealer lots

Packaging personnel should always wear gloves while handling metal parts. Parts should be clean and free of fingerprints before wrapping. Package clean products as quickly as possible. Place the part no more than 12" (30 cm) from the VCI film.



The "heat shrinkable" feature allows film to conform around the metal part using conventional heat shrink equipment. Film may also be used without heat shrinking when wrapping large, bulky and unconventional shapes.

***Safe for use in the workplace.***



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# Technical Data

# P R E M I U M METAL-GUARD® X-O WRAP Barrier Film Corrosion Inhibiting, Heavy Duty Shrink Film with Ultraviolet Stabilizer

## Physical Data

Physical Properties (Typical Values)	Units	10 mil (250µ)	Test Method
Opacity	%	>65	D-1003
Coefficient of Friction: Inside Film to Film	NA	0.2-0.4	D-1894
Dart Drop, (f-50)	g	>854	D-1709
1% Secant (MD/TD)	MPa	224/238	D-882
60 Degree Gloss	Gloss Units	120	D-2457
45 Degree Gloss	Gloss Units	85	D-2457
Free Shrink @ 140C (MD/TD)	%	75/5	
Free Shrink @ 150C (MD/TD)	%	75/10	
OTR	cm3/100 in2/ day	44	D-3985
MVTR	g/100 in2/day	0.10	F-1249
Tensile Strength, (MD/TD)			
Machine Direction:	MPa	36	D-882
Cross Direction:	MPa	34	D-882
Tear Resistance,			
Machine Direction:	gf	200	D-1922
Cross Direction:	gf	6500	D-1922
Elongation, (MD/TD)			
Machine Direction:	%	500	D-882
Cross Direction:	%	600	D-882

## Protection Time

Inhibitor and UVI Protection for 6 months of outdoor exposure, in warm or cold environments with periodic moisture, or 12 months minimum of dry indoor exposure.

Metal	Level of Protection
Low Carbon Steel	Provides full protection in vapor and contact phases
Stainless Steel, All Grades	Provides full protection in vapor and contact phases
Aluminum	Testing required
Zinc or Galvanized Zinc	Provides full protection in vapor and contact phases
Cast Iron	Provides full protection in vapor and contact phases
Copper	Provides full protection in vapor and contact phases
Silver	Testing required
Category A**	Provides full protection in vapor and contact phases
Category B***	Testing required except Magnesium and Magnesium Alloys Not recommended.

\*\* Category A metals include zinc, cadmium, nickel, cadmium plated steel, and nickel-plated steel.

\*\*\*Category B metals include lead, antimony, babbitt alloys, solder, magnesium or magnesium alloys.

"Testing required" means the product will usually protect this type of metal. However, for best results we recommend testing before use. Daubert Cromwell always recommends corrosion testing of customer provided samples of metals and all chemicals to better confirm these statements.

## Storage

Store in a cool, dry place, away from direct sunlight. Do not store outdoors, in high humidity, or at temperature above 80°F (27°C).

## Shelf Life

3 Years minimum from date of shipping when stored in the original shipping container used by Daubert Cromwell and not in high humidity and not at high temperatures, or stored outside. Storage outside these conditions voids this statement.

## Approvals

RoHS, Recyclable, OEM Approved, TRGS 615, TL8135



**WARRANTY** The data, statements and recommendations in this product specification sheet are based on testing, research and other development work, which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. Physical properties shown above represent typical values and are not intended for use in writing specifications. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and use. All products manufactured by us are warranted to be first class material and free from defects in

material and workmanship. Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other material and products. We make no warranty, express or implied, as to the suitability of any of our products for any particular use, and we shall not be subject to liability from any damages resulting from their use in operations not under our direct control. This warranty is exclusive of all other warranties, express or implied, and no representative of ours or any other person is authorized to assume for us any other liability in connection with the sale of our products.

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