

Product Data

P R E M I U M
METAL-GUARD®
VCI/UV Shrink Film - 4 mil
*Corrosion Inhibiting, Heavy Duty
Shrink Film with Ultraviolet Stabilizer*

Description



Premium Metal-Guard VCI/UV shrink film is 4 mil polyethylene with a proprietary blend of Daubert Cromwell volatile corrosion inhibitors. The transparent, heat-sealable film is heat shrinkable and UVI (ultraviolet light) stabilized, making it suitable as a corrosion preventive wrap for metal surfaces in outdoor applications.

Flexible, recyclable Premium Metal-Guard shrink wrap film provides barrier protection to the packaged part, while the VCI provides active corrosion protection. Available in wide widths for covering large and irregularly shaped equipment during storage, shipment and export. Standard in Daubert® blue.

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
- Replaces the less functional non-VCI shrink wraps and tarps
- UV stable feature extends life to the film, especially when 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



When metals are wrapped or packaged in this VCI film, the VCI chemicals form a protective molecular layer on the surface of the metal. This protective layer serves as a barrier, preventing moisture, salt, dirt, oxygen, and other corrosion-causing materials from depositing directly on the metal and causing rust and corrosion. When the part is unwrapped, the VCI will safely dissipate. No further cleaning is required.

Use Premium Metal-Guard VCI/UV Shrink Film to cover, tarp or wrap:

- In-process assemblies and components.
- Excess inventory of seasonal equipment (snowmobiles, marine and recreational equipment)
- Rental equipment on dealer lots and sheds.
- Aircraft parts, spares, machinery
- Engines and automotive parts
- Rental equipment on dealer lots



The “heat shrinkable” feature allows the film to conform to the shape of the metal part. Use conventional heat shrinking equipment. Film may also be used without heat shrinking when wrapping large, bulky and unconventional shapes. Easy and safe to handle.

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.

Safe for use in the workplace.

**DAUBERT
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Technical Data

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Physical Data

Typical Properties	Typical Values	ASTM Test No.
Thickness (Gauge), mils (µm)	4.0 (100)	D-6988
Puncture Resistance, lbs (kg)	4.0 (1.81)	MIL-STD 3010, Method 2065

	Machine Direction	Transverse Direction	
Tear Resistance, gf (N/ply)	214 (2.10)	506 (2.48)	D-1922
Tensile Strength, psi (MPa)	2665 (67.86)	2927 (74.28)	D-882
Elongation, %	486	920	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
Steel, AISI 1010	Protection
Cast Iron	Protection
Brass, Red or White	Protection
Bronze, including Naval	Protection
Copper	Protection
Stainless Steel, All Grades	Protection
Zinc or White Metal	Protection
Galvanized, hot dipped or electro galvanized	Protection
Chromium and Chromium Plated	Protection
Nickel and Nickel Plated	Protection
Tinplate	Protection
Category A**	Protection
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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