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Technical Data

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Metal-Guard® FF

(Heavy duty, high barrier, volatile corrosion inhibitor packaging film)

Product Description

A heavy duty, laminated nylon/aluminum foil/polyethylene structure with Daubert Cromwell's special ferrous metal corrosion inhibitor formulation in the PE film layer.



The innermost layer, the sealant layer, is laminated to the foil and nylon for very high barrier protection against oxygen and moisture. The VCI is trapped within the structure for long term corrosion protection. This laminate offers excellent oxygen and moisture barrier properties with superior physical properties.

Applications

Using Metal-Guard FF barrier film replaces the 2-step process of wrapping parts with VCI poly and then a laminated barrier material. Typical application includes wrapping large machinery for export when crating is not used. Excellent sealing characteristics of the inside layer makes it ideal for hand sealing in the field.

Physical Properties

Property	Typical Value	Test Method
Basis Weight (lbs/3000 ft^2)	124	TAPPI 410
Film Gauge	7.9 mil	ASTM D2103
Tensile Strength (lb./in.)		ASTM D882
Machine	25.0	
Cross	25.0	
Heat Seal Strength, lb/in (@ 435°F, 60 psi, 3.0 sec.)	25.0	ASTM F88
Seal Range (°F)	375 to 440	CPTM
Tear Strength (grams force)	>400	ASTM D1922
WVTR, g/100in2/day @90%RH; 40°C	0.0005	ASTM F1249
OTR, cc/100in2/day @0%RH, 23°C	0.0005	ASTM D3985
Puncture Resistance (lbs)	26.0	Fed-Std 101
Suggested Sealing Conditions	435°F, 60 psi, 3.0 seconds	

Inhibitor Protection

Recommended for use under 6 months of outdoor exposure, in warm or cold environments with periodic moisture, or 12 months minimum, dry indoor exposure.

Metal	Corrosion Protection
Low Carbon Steel	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.
Silver	Testing required.
Category A**	Testing required.
Category B***	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" indicates product will usually protect this metal type, however, for best results Daubert Cromwell recommends testing prior to use.

Shelf Life

36 Months, from date of shipping. This shelf life statement is only valid for product stored in the original shipping container used by Daubert Cromwell and not in high humidity and not at high temperatures. Storage outside these conditions voids this statement.

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The data, statements and recommendations in this product information 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.

WARRANTY – 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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