

Description



Uniwrap PC50MPI scrim is a 50 lb/ream (80 g/m²) natural kraft coated with 1 mil of low density polyethylene reinforced with tri-directional scrim. The paper is saturated with Daubert Cromwell's multi-metal volatile corrosion inhibitor (VCI) formulation. Also compatible with copper, zinc and zinc galvanized steel, PC50MPI Scrim is designed for use as sheeting and interleaving. It can be used when the application requires higher strength and barrier properties than standard VCI coated kraft paper. Also available in natural kraft, reinforced scrim with ferrous corrosion inhibitors, nitrite-free, as Protek Wrap® PC50H Scrim.

Features



Proven Daubert Cromwell corrosion inhibitor chemistry

- Metals protected: steel, cast iron, zinc and copper
- High strength, heavy duty protection
- Resists grease, oil and water. Resists rips, tears and punctures
- Non-toxic, OEM-approved VCI chemistry
- No heavy metals, chromates, phosphates, or secondary amines
- Parts remain clean, dry and ready to use immediately
- RoHS compliant
- Compatible with Daubert Cromwell rust preventive liquids, emitters and
- Available in rolls, cut sheets, custom sizes



Typical Applications



Applications:

- Strong and durable for wrapping heavy metal components and as pallet liner
- Sheeting and interleaving between heavy rolls and pallets
- Irregularly shaped machinery and components
- Protection for metal pieces with pointed or sharp edges and corners
- Bulky and large fabrications, coils and wire

To use, wrap or layer clean parts in PC50MPI Scrim. Place within 12" (200-300mm) of the metal. The corrosion inhibitors form a protective molecular layer on the surface of the metal. When the parts are unwrapped, the protective layer immediately begins to dissipate. Parts are clean, corrosion-free and ready to use. No further processing is necessary prior to use.



Reinforced Scrim Product Family

Product	Basis Weight	Construction	Description	Protection
Uniwrap PC50MPI	50 lb/80 g/m ²	Natural Kraft	Heavyweight kraft with LDPE reinforced tri-directional scrim.	Multi-metal
Protek Wrap PC50H Scrim	50 lb/80 g/m ²	Natural Kraft	Heavyweight kraft with white LDPE reinforced tri-directional scrim. Nitrite-free.	Ferrous

Physical Data

Physical Properties*		Typical Values	
	Units	Typical Value	Test Method
Finished Basis Weight	lb/ream (g/m ²)	80 (130)	T-410
Caliper (thickness)	mil (µm)	12 (305)	T-411
Mullen Burst Strength	psi (kPa)	52 (359)	T-403
		Machine Direction	Cross Direction
Elmendorf Tear Strength	g/ply (N/ply)	289 (2835)	299 (2933)
Tensile Strength	lb/in (kN/m)	42 (7.36)	14 (2.45)

Protection Time

Inside Dry Storage 24 months minimum

Mild Carbon Steel	Provides full protection in contact and vapor phases.
Aluminum (1100)	Passive. Good protection in contact phase. Test for compatibility.
Zinc or Zinc Galvanized Steel	Provides protection in contact and vapor phases.
Copper, Copper Alloys	Provides protection in contact and vapor phases.
Brass, Brass Alloys, Bronze, Bronze Alloys	Compatible. Coppertex® or UWMPI or Uniwrap® 200 recommended.
Silver	Not recommended. Use Silver Saver or Silver Guard.
Category A ²	Not recommended.
Category B ³	Not recommended.

- 1 Brass alloys in the "red area containing up to 20% zinc will act like copper; brass in the "white" area containing over 20% zinc will act like Category A metals.
- 2 Category A metals include zinc, cadmium, nickel, cadmium-plated steel, and nickel-plated steel. These are prone to contact corrosion sensitivity with inhibitor chemicals, but will be protected as shown in the vapor phase.
- 3 Category B metals include lead, antimony, Babbitt alloys, solder, magnesium or magnesium alloys.
- 4 "Not recommended" does not indicate incompatibility. Compatibility testing is always recommended. Our "Not recommended" rating indicates that there may be more effective Daubert Cromwell products for these applications. Your sales representative can help recommend the optimal product for specific applications.

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

36 months from date of shipping, stored in the original shipping container used by Daubert Cromwell and not in high humidity and not at high temperatures, or stored outside

Approvals

RoHS, TL8135, OEM Approved



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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