

# Product Data

## 40PCMPI Corrosion Inhibitor VCI Paper

### Description



40PCMPI is a 40 lb/ream (65g/m<sup>2</sup>) poly coated kraft, paper side saturated with Daubert Cromwell's proprietary multi-metal volatile corrosion inhibitor (VCI) formulation. 40PCMPI is designed for general protection of ferrous/non-ferrous metal combinations, including cadmium and zinc galvanized steel, without need for surface-applied oils or rust preventive liquids.

40PCMPI has corrosion inhibitors on both sides and 6-language print on one side to identify it as valuable packaging for metals. Also available with wax coating for molding around small parts, reinforced constructions for extra tear and puncture resistance, and poly coated for moisture resistance.

### Features



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

- Metals protected: Mild carbon steel, cast iron, zinc and zinc galvanized, copper, nickel-plated steel, brass and bronze.
- Safe and easy to use; no special handling required
- No heavy metals, chromates, phosphates, or secondary amines
- Replaces oil, grease, and traditional corrosion prevention methods
- Parts remain clean, dry and ready to use immediately
- RoHS compliant
- Compatible with Daubert Cromwell rust preventive liquids, emitters and films.

### Typical Applications



#### **For transport, export, storage of**

- Fabricated metal components and assemblies
- Engines and large machinery
- Frames, stampings, doors,
- Bearings, gears, valves, pistons, Brake parts, automotive parts

To use, wrap or layer clean parts in UW40MPI paper. 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.

#### **Uniwrap® Product Family**

Product	Basis Weight	Construction	Description	Protection
UW30MPI	30 lb ream /49 g/m <sup>2</sup>	Natural kraft	General protection	Multi-metal
UW33MPI	35 lb ream/ 57 g/m <sup>2</sup>	Wax-coated kraft	Wax-coated kraft	Multi-metal
UW35MPI	35 lb ream/57 g/m <sup>2</sup>	Natural kraft	General protection	Multi-metal
UW40MPI	40 lb ream/65 g/m <sup>2</sup>	Natural kraft	General protection	Multi-metal
UW60MPI	60 lb ream/98 g/m <sup>2</sup>	Natural kraft	General protection	Multi-metal
40PCMPI	40 lb ream/65 g/m <sup>2</sup>	Poly Coated Kraft	General Protection	Multi-metal
60PCMPI	60 lb ream/98 g/m <sup>2</sup>	Poly Coated Kraft	General Protection	Multi-metal
UW200	35 lb ream/57 g/m <sup>2</sup>	Natural kraft	Nitrite-free	Multi-metal
UW94MPI Woven	40 lb ream/65 g/m <sup>2</sup>	Poly laminated to woven fabric for strength	Heavy duty, strong, moisture-resistant	Multi-metal
PC50MPI Scrim	50 lb ream/80 g/m <sup>2</sup>	Poly laminated to tri-directional scrim	High strength, moisture resistant, durable	Multi-metal

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# Technical Data

# 40PCMPI Corrosion Inhibitor VCI Paper

## Physical Data

Physical Properties		Typical Values		
Property	Units	Typical Value	Test Method	
Finished Weight	lb/ream (g/m²)	57 (92)	T-410	
Caliper	mil (µm)	5.7 (144)	T-411	
Mullen Burst	psi (kPa)	37 (255)	T-403	
		<i>Machine Direction</i>	<i>Cross Direction</i>	
Elmendorf Tear	g/ply (N/ply)	104 (1.02)	111 (1.09)	T-414
Tensile Strength	lb/in (kN/m)	24 (4.20)	13 (2.27)	T-404

## Protection Time

Inside Dry Storage

24 Months (min)

Metal	Protection
Aluminum	Testing Required <sup>1</sup>
Steel, AISI 1010	Protection
Cast Iron	Protection
Brass, Red or White	Protection <sup>2</sup>
Bronze, including Naval	Protection
Copper	Protection
Cadmium or Cadmium Plated	Protection
Stainless Steel, All Grades	Protection
Galvanized, hot dipped or electroplated	Protection
Chromium or Chromium Plated	Protection
Nickel or Nickel Plated	Protection
Silver or Silver Plated	Testing Required <sup>1</sup>
Magnesium	Testing Required <sup>1</sup>
Lead or solder	Protection
Tin or tinplate	Protection
Zinc or White Metal	Protection

1. "Testing Required" indicates that 40PCMPI will usually protect this metal type, however, for best results we recommend that testing be done. Daubert Cromwell always recommends corrosion testing of customer provided samples of metals and all chemicals to better confirm these statements.
2. Brass alloys in the "red" area containing up to 20% zinc will act like copper; brass in the "white" area containing over 20% zinc and will act like Category A metals. 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.

## Storage

Store in a cool, dry place, away from direct sunlight. Do not store outdoors, in high humidity, or at high temperatures.

## Shelf Life

24 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, 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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