Product Data

Protek Wrap® PW31
Corrosion Inhibitor VCI Paper

Description

Protek Wrap (PW31) is a 30 lb/ream (49 g/m²) natural kraft saturated throughout with Daubert Cromwell's proprietary ferrous volatile corrosion inhibitor (VCI) and waxed one side for enhanced molding and moisture barrier properties. PW31 is intended for hand-wrapping small and oddly shaped metal parts against corrosion-causing elements in the environment during storage and shipment. Durable and moisture-resistant, the wax paper protects ferrous metals, including steel and cast iron, without the need for surface-applied oils or rust protective liquids.

PW31 paper has corrosion inhibitors on both sides and 6-language print on one side to identify it as valuable packaging for metals.

Features



Proven Daubert Cromwell corrosion inhibitor chemistry

- Metals protected: Steel, cast iron, and ferrous alloys
- Safe and easy to use; no special handling required
- Non-toxic, OEM-approved VCI chemistry
- 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
- Available in rolls, cut sheets, custom sizes

Typical Applications





Transport, export, storage of:

- Fabricated metal components and assemblies
- Small and oddly shaped parts
- Bearings, gears, valves and pistons
- Brake parts, automotive parts

To use, wrap or layer clean parts in PW31 wax 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.

Protek Wrap® Product Family

Product	Basis Weight	Construction	Description	Protection
PW30	30 lb/49 g/m²	Natural Kraft	General protection	Ferrous
PW32	35 lb/57 g/m²	Natural Kraft	General protection	Ferrous
PW60	60 lb/98 g/m²	Natural Kraft	General protection	Ferrous
PW31	*30 lb/49 g/m²*	*Natural Kraft, Wax Coated*	*Enhanced molding barrier properties.*	*Ferrous*
PW33	35 lb/57 g/m²	Natural Kraft, Wax Coated	Enhanced molding barrier properties.	Ferrous

DAUBERT CROMWELL
The Leading Name in Corrosion Prevention®

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Technical Data

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Physical Data

Physical Properties*		Typical Values		
	Units	**Typical Value**		**Test Method**
Finished weight	lb/ream (g/m²)	43 (70)		T-410
Caliper (thickness)	mil (µm)	3.6 (91)		T-411
Mullen Burst Strength	psi (kPa)	34 (235)		T-403
		Machine Direction	***Cross Direction***	
Elmendorf Tear Strength	g/ply (N/ply)	60 (0.59)	50 (0.49)	T-414
Tensile Strength	lb/in (kN/m)	10 (1.75)	10 (1.75)	T-404
Elongation	%	2	3	T-494
Protection Time				
Inside Dry Storage				24 months minimum

Mild Carbon Steel, Cast Iron	Provides full protection in contact and vapor phases.
Aluminum (1100)	Light protection in contact and vapor phases.
Zinc or Zinc Galvanized Steel	Not recommended[4]. UWMPI, Ferro-Galv, or Uniwrap® 200 recommended.
Copper, Copper Alloys	Not recommended. Coppertex® or UWMPI or Uniwrap® 200 recommended.
Bronze, Bronze Alloys	Not recommended. Coppertex® or UWMPI or Uniwrap® 200 recommended.
Tin, Tin Plated Steel	Compatible.
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 e 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

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, 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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