

Product Data

CLEARPAK[®]BIO

BIO-Based Corrosion Inhibitor (VCI) Film
4 mil (100 µm)

Description



Clear Pak BIO is a proprietary corrosion inhibitor (VCI) film that combines the superior rust protection you expect from Daubert Cromwell with the highest level of care for the environment and worker safety.

The corrosion inhibitors in Clear Pak BIO film are all natural, derived from plants, completely nitrite-free and amine-free. Clear Pak BIO complies with the strictest occupational health, safety and environmental regulations while protecting your metal parts from corrosive elements during storage and export shipment.

Features



Proven Daubert Cromwell corrosion inhibitor chemistry: Bio-based, nitrite-free, amine-free

- Metals protected: Ferrous metals. Compatible with wide range of metals and alloys in multi-metal applications
- Excellent barrier against oil, water and moisture
- Odorless, non-toxic, fully recyclable
- Purple tinted film is heat-sealable, flexible, strong and tear-resistant
- Safe and easy to use; no special handling required
- Parts remain clean, dry and ready to use immediately without additional cleaning or rework
- RoHS compliant; TRGS 615 and 900 compliant.
- REACH compliant
- Passes rigorous test TL 8135-0043 with highest grade possible (3).
- Compatible with Daubert Cromwell rust preventive liquids, papers, foams and emitters.

Typical Applications



For transport, export, storage of:

- Bags and wraps for individual part packaging
- Large size bags, pallet liners and covers for engines, steel parts and assemblies
- Sheeting for interleaving between layers of steel components
- Protecting powertrain systems, drivetrain systems, finished equipment and machines
- Large and roughly handled assemblies, frames, stampings, doors, etc.
- Export packaging

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 Clear Pak BIO film.



**DAUBERT
CROMWELL**

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Technical Data

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Physical Data

Physical Properties (Typical Values)	4 mil (100µ)	Test Method
Thickness (Gauge), mils (µm)	3.86 (98)	D-645
Burst Strength, psi (kPa)	21.9 (151)	D-3786
Puncture Strength, g (lb)		
Tensile Strength, kN/m (lb/in)		
Machine Direction:	8.56 (1.50)	D-882
Cross Direction:	7.71 (1.35)	D-882
Tear Resistance, N/ply (gf)		
Machine Direction:	466 (4.57)	D-1922
Cross Direction:	758 (7.41)	D-1922
Elongation, %		
Machine Direction:	714	D-882
Cross Direction:	856	D-882
Protection Time (Minimum) Inside Dry Storage	24 Months	
Metal	Level of Protection	
Steel, AISI 1010	Protection	
Cast Iron	Protection	
Aluminum	Test for compatibility	
Zinc or zinc galvanized	Not recommended	
Copper	Not recommended	
Brass*	Test for compatibility	
Bronze	Not recommended	
Category A**	Not recommended	

* 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

36 months 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, TRGS 615, TL8135, REACH



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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