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HIGH PERFORMANCE VpCI® PACKAGING

EcoShield® VpCI®-226

High Technology Vapor phase Corrosion Inhibiting Films and Bags
Multi-Metal VpCI® Systems - Patent Pending



PRODUCT DESCRIPTION

Vapor phase Corrosion Inhibitor (VpCI®) 226 Series Films combine the latest film technology with the most effective corrosion protection for all of your metal products. Sealing your product in Cortec® VpCI® films protects metal parts from all types of corrosion including rust, tarnish, stains, white rust, and oxidation for up to 5 years.* It's as easy as putting your product in a Cortec® VpCI® package!

Cortec® VpCI® Films and Bags replace conventional rust preventatives such as oils and desiccants. You save even more because VpCI® packaging eliminates all the degreasing or coating removal required in the past. Now your product can be used immediately. EcoShield® VpCI®-226 is transparent, making it easy to identify parts. Additionally, it does not phosphates, or halogen-based materials, and is nontoxic and recyclable.

Cortec's specialized formula ensures that EcoShield® VpCI®-226 Film and Bags are 100% nitrite free. Your mind can be put at ease as you handle a film that contains no trace of nitrite yet effectively protects your packaged parts from corrosion, rust, and tarnish.

EcoShield® VpCI®-226 Series Films and Bags protect metal objects as small as a needle to as large as the contents of an oceangoing container. VpCI®-226 can be manufactured utilizing a wide array of the most advanced resins. Custom blends are available to give you the exact properties you need, whether it's improved puncture resistance, tear strength, or other requirements.

FEATURES

Metal parts packaged in EcoShield® VpCI®-226 receive continuous protection against salt, excessive humidity, condensation, moisture, aggressive industrial atmospheres, and dissimilar metal corrosion. VpCIs in the film vaporize and condense on metal surfaces in the enclosed package. VpCIs reach every area of your part, protecting its exterior as well as hard-to-reach interior surfaces. VpCI®-226 provides complete product protection during storage as well as during domestic and overseas shipments, virtually eliminating any rust claims.

BENEFITS

The EcoShield® VpCI®-226 Series provides the highest level of corrosion protection demonstrated by standard and internal corrosion test methods. For further testing and case history information, please contact your Cortec® distributor or visit Cortec® at www.cortecvci.com.

Cortec's VpCI® Film is the only film available today that offers a balanced combination of vapor phase and contact corrosion protection combined with high-tech resin and extrusion technology.

APPLICATION

Cortec® VpCI®-226 is heat sealable and can be used with all types of manual or automated heat-seal packaging equipment.

METALS PROTECTED

- Aluminum
- Galvanized Steel
- Carbon Steels
- Silicon Steel
- Stainless Steel
- Silver
- Copper
- Solder
- Brass

SIZES

EcoShield® VpCI®-226 Film is available in a variety of standard and customized forms including bags, sheeting-reinforced film, ziplock, and Auto-Bags, gusseted liners, bags-on-a roll, perforated sheeting, coil covers, shrink film, and tubing to protect small or large parts. Antistatic (ESD) varieties are available as well as coextruded constructions. Opaque formulations are also available. The material is available in a variety of gauges ranging from 2 to 6

mils (50-150 microns) and widths from 3" to 32' (7.6 cm - 9.7 m).

TYPICAL PROPERTIES

Property		Test Method	Units	2.40	4.00	6.00
Caliper		ASTM D6988	mil (µm)	2.63 (66.8)	4.21 (107)	6.24 (159)
Breaking Factor	MD	ASTM D882-02	lbs/in (kN=/M)	10.65 (1.86)	18.94 (3.32)	28.47 (4.99)
	TD			9.71 (1.70)	17.43 (3.05)	29.85 (5.23)
Tensile Strength at Break	MD	ASTM D882-02	psi (mPa)	4339.00 (29.92)	4592.00 (31.66)	4461.00 (30.76)
	TD			3890.00 (26.82)	4258.00 (29.36)	4651.00 (32.07)
Elongation at Break	MD	ASTM D882-02	%	681.46	814.27	935.94
	TD			728.75	827.19	999.74
Yield Strength	MD	ASTM D882-02	psi (mPa)	1642.87 (11.33)	1690.73 (11.66)	1706.41 (11.77)
	TD			1641.29 (11.32)	1724.79 (11.89)	1768.14 (12.19)
Tear Strength	MD	ASTM D1922-06A	gram force (mN)	710.40 (6969)	1036.80 (10171)	1420.80 (13938)
	TD			780.80 (7660)	2035.20 (19965)	1587.20 (15570)
Dart Drop Impact Resistance		ASTM D1709-04, Test Method A	grams	283.40	501.40	678.00

PACKAGING AND STORAGE

The shelf life of VpCI®-226 Film is 2 years.

*Depending on film construction thickness and application.

STANDARD TEST REFERENCE CHART

ASTM D-882	Tensile Strength at Break/Peak
ASTM D-882A	% Elongation at Break
ASTM D-1922	Tear Test
ASTM D-3420	Puncture Resistance
ASTM D-6988-07	Film Thickness
ASTM D-1748	Humidity
ASTM D-1735	Water Fog
ASTM D-2732-30	Shrink Test (Shrink Films Only)
NACE TM-0208-2008	Vapor Inhibiting Ability
NACE RPO487-2000	Selection of Rust Preventatives
MIL-PRF-22019E	Performance Requirements
MIL-PRF-22020E	Performance Requirements

FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION**

LIMITED WARRANTY

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