



**CORTEC**  
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

## CorShield® VpCI®-220E

World's First Anticorrosion Films and Bags with Guaranteed 30% Post-Consumer Recycled Content, Patented

### DESCRIPTION

VpCI®-220E Films and Bags combine the latest films technology with the most effective corrosion protection for all of your metal products. Vapor phase Corrosion Inhibitors in VpCI®-220E protect metal parts inside the film from all types of corrosion, including rust, tarnish, stains, white rust, and oxidation for up to 5 years.\* VpCI®-220E Film and Bags can replace conventional rust preventatives such as oils and desiccants, saving time and money by eliminating the degreasing or coating removal of the past. VpCI®-220E does not contain amines, nitrites, nitrates, phosphates, halogen-based materials, molybdates, or chromates. It is non-hazardous, recyclable, and made with 30% post-consumer recycled content for a better environmental footprint.

### PACKAGING & STORAGE

Available in a variety of standard and customized forms ranging from 2 to 10 mil (50-250 micron) thicknesses and 3" to 32' (7.6 cm to 9.7 m) widths.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

### HIGH PERFORMANCE VpCI® PACKAGING



### FEATURES

- State-of-the-art Vapor phase Corrosion Inhibitor Technology
- Made with guaranteed 30% post-consumer recycled content
- Conforms to NACE Standard TM0208-2018 (Grade 4) and German Standard TL-8135-002 for vapor phase corrosion protection (VpCI®/VCI)
- Fully recyclable
- Provides long term multi-metal VCI corrosion protection
- Non-hazardous does not contain nitrites, amines, phosphates or heavy metals such as molybdates
- Economical
- Heat sealable

### BENEFITS

- Achieve high-quality protection at competitive costs
- Continuous protection against salt, excessive humidity, condensation, moisture, aggressive industrial atmospheres, and dissimilar metal corrosion
- Virtually eliminate rust claims
- Protect hard-to-reach surfaces inside the packaging

### METALS PROTECTED

- Aluminum
- Galvanized Steel
- Carbon Steel
- Copper

\*Depending on film construction thickness and application.

# CorShield® VpCI®-220E

## TYPICAL PROPERTIES

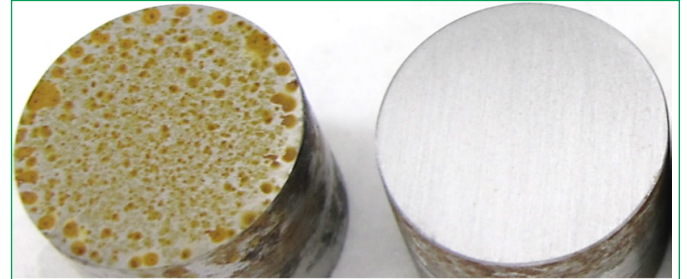
Property		Test Method	Units	VpCI®-220E
Caliper		ASTM D6988	mil (µm)	4.00 (25)
Breaking Factor	MD	ASTM D882-02	lbs/in (N/m)	14.12 (2473)
	CD			13.95 (2443)
Tensile Strength at Break	MD	ASTM D882-02	psi (kPa)	3405.00 (23476)
	CD			3524.00 (24297)
Elongation at Break	MD	ASTM D882-02	%	661.43
	CD			959.66
Yield Strength	MD	ASTM D882-02	psi (kPa)	2019.59 (13924)
	CD			1480.05 (10204)
Dart Drop Impact Resistance		ASTM D1709-04, Test Method A	lbs (g)	1.00 (454.70)
Puncture Resistance	Outside	MIL-STD-3010, TM 2065	lbf (gf)	6.49 (2944)
	Inside			6.52 (2957)
Tear Strength	MD	ASTM D1922-06a	lbf (gf)	0.7 (336.00)
	CD			2.4 (1126.40)
Coefficient of Friction		ASTM D1894	static	0.01
			kinetic	0.49

**Typical values represent average laboratory values and are intended as guides only, not as specifications.**

## Military VIA Test\*

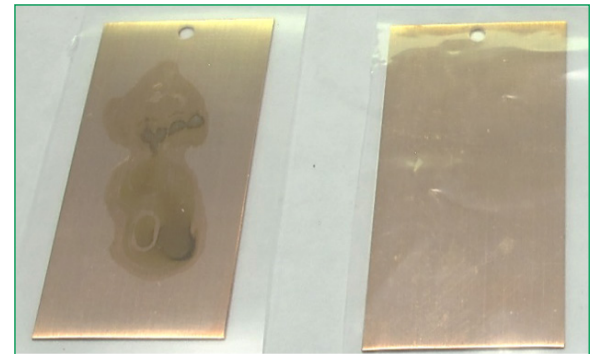
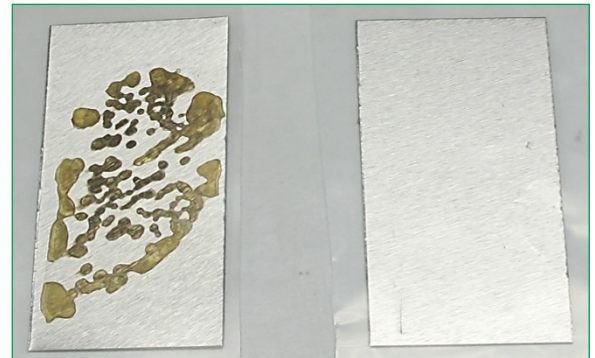
Test Sample	MIL-PRF-3420H Results
VpCI®-220E	Pass
Control	Grade 4

\*Before exhaustion.



## Razor Blade Testing

	Steel	Copper
VpCI®-220E	Pass	Pass
Control	Fail	Fail



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