

MilCorr® VpCI® Shrink Film



PRODUCT DESCRIPTION

MilCorr VpCI Shrink Film is a heavy duty film featuring Cortec multimetal Vapor phase Corrosion Inhibitors (VpCI). MilCorr VpCI Shrink Film provides a top-notch universal protection system with high ultraviolet (UV) light protection to maintain the integrity of the film itself as well as the parts packaged within.

MilCorr VpCI Shrink Film can replace conventional rust preventatives such as oils and desiccants. Parts protected with MilCorr are ready to use with no additional cleaning and/or degreasing necessary, saving you time and money.

Metal parts packaged in MilCorr receive continuous protection against salt air and humid environments, moisture, aggressive industrial atmospheres and dissimilar metal corrosion. The VpCIs vaporize and condense on all metal surfaces within the enclosed space, and diffuse to every area of your part; protecting its exterior as well as void spaces and recessed areas. You get complete product storage protection as well as during domestic and overseas shipments, virtually eliminating any rust claims.

MilCorr VpCI Shrink Film, in conjunction with other Cortec products, provides a total turnkey preservation for long term outdoor storage.

FEATURES

- Provides UV protection for outdoor storage
- Multimetal corrosion inhibition providing contact-, barrier-, and vapor-phase protection.
- Superior mechanical properties
- Will shrink using a wide variety of shrink tools including electric and propane heat guns
- Provides a unitized, tight and tamper-proof load
- Extra protection for outdoor storage and export shipments
- Effective in severe outdoor climates
- Immediate use of protected object upon removal
- Recyclable and non-toxic

METALS PROTECTED

MilCorr VpCI Shrink Film is compatible with and protects the following metals:

- Steel
- Iron
- Brass
- Copper
- Solder
- Aluminum
- Silver
- Nickel

For metals not specifically listed above, please contact Cortec for information regarding their protection.

APPLICATION INSTRUCTIONS

1. Measure unit and determine amount of film needed, allowing at least 12" overlap at all seams.
2. Lay out film in desired preparation area, making sure it is clean and dry.
3. Place vehicle or equipment on film.
4. Pad off any sharp edges and corners.
5. Wrap or Shroud equipment with film.
6. Use shrink tape to attach loose ends onto film/equipment.
7. Carefully apply heat and shrink film to desired fit.

Typical shrink temperature range: 340°-440°F
171°-227°C

Typical sealing temperature: 240°-320°F
116°-160°C

TYPICAL APPLICATIONS

- Military vehicles and equipment preservation
- Mothball preservation of industrial equipment
- Export packaging of expensive larger equipment
- Heavy equipment covers
- Recreational vehicle (boats, snowmobiles, etc.) preservation
- Pallet shrouds

TESTING

UV Weathering Testing

- ASTM G 53-93 UV Weathering Test*

*Note. Test is in process. No corrosion or degradation of the film was observed after 3+ years of exposure.

Corrosion Testing

- Cortec VIA Test: Pass
- Cortec Razor Blade Test: Pass
- Cortec SO₂ Corrosion Test: Pass
- Cortec F-12 Cycling Corrosion Test: Pass

Water Vapor Transmission Rate (MOCON)

- ASTM F-1249
- 100% RH, 100°F (37.8°C)

WVTR g/(100in ² •day)		WVTR g/(m ² •day)	
Sample 1	Sample 2	Sample 1	Sample 2
0.0833	0.0829	1.29	1.28

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

MECHANICAL PROPERTIES

Property		Test Method	Units	MilCorr
Caliper		ASTM D6988	mil	10.00
Breaking Factor	MD	ASTM D882-02	lbs/in	30.42
	TD			30.33
Tensile Strength at Break	MD	ASTM D882-02	psi	2906.18
	TD			2959.96
Elongation at Break	MD	ASTM D882-02	%	899.29
	TD			950.83
Yield Strength	MD	ASTM D882-02	psi	1176.73
	CD			1522.11
Tear Strength	MD	ASTM D1922-06a	mN	18678.24
	CD			22916.16
Dart Drop Impact Resistance		ASTM D1709-04, Test Method A	grams	>1300

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

For safe handling information, please consult the Material Safety Data Sheet (MSDS).

PACKAGING AND STORAGE

MilCorr VpCl Shrink Film is available in 20' x 210' x 0.010" sheeting. Contact a Cortec Representative for other sizes and constructions. Film should be stored indoors at ambient conditions, sealed in original packaging. Under these conditions, shelf life is up to 24 months.

LIMITED WARRANTY

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