

ATION
USA
FILM
INHIBITOR-PATENT



HIGH PERFORMANCE VpCI™ PACKAGING

MilCorr® VpCI Shrink Film



PRODUCT DESCRIPTION

MilCorr VpCI Shrink Film is a composite film featuring Cortec multimetal Vapor phase Corrosion Inhibitors (VpCI). MilCorr VpCI Shrink Film provides a top-notch universal protection system with high ultra violet (UV) light protection.

This product is designed to be an alternative to expensive multi-layer laminated flexible constructions and eliminates the need for vacuum packaging and dehumidification. This film is produced in a standard military tan color with other colors being available.

ADVANTAGES

- Multimetal corrosion protection
- UV Protection
- High strength and resistant to puncturing and tearing
- Effective with regular and irregular loads
- High shrink force for broad application
- Can be used for severe weather protection
- Shrink wrap below the pallet not affected by forks
- Provide unitized, tight and tamper-proof load
- Extra protection for outdoor storage and export shipments
- Effective in severe outdoor climates
- Immediate use of protected object (vehicle, equipment, etc.) upon removal

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.

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

INSTRUCTIONS FOR USE

Shrinking can be performed in an oven, by lowering a rectangular heating element over the load or by portable heating guns.

- Completely wrap or shroud equipment/vehicle to prevent entry of moisture and air
- Lay out bottom of film in desired storage area
- Place vehicle/equipment on film
- Overlay sheeting a minimum of 1 foot
- Use shrink tape to attach loose ends onto film
- Turn on shrink guns, carefully wave heat fan over film 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



TESTING

UV Weathering Testing

- ASTM G 53-93 UV Weathering Test*

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

Corrosion Testing

- German VIA Test (German Military Std. TL-8135-002): 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 gm/(100in ² •day)		WVTR gm/(m ² •day)	
Sample 1	Sample 2	Sample 1	Sample 2
0.0833	0.0829	1.29	1.28

TYPICAL PHYSICAL PROPERTIES

	TESTING DATA
Thickness	10-mils (250 microns)
Tensile Strength, psi (ASTM D 882-91)	MD 3451.8 TD 2049.9
Elongation, % (ASTM D 882-91)	MD 731.5 TD 884.7
Elmendorf Tear Strength, gf (ASTM D 1922-93)	MD 480.4 TD 2624.0
Puncture Resistance (ASTM D 3420-95)	325.3 g/mil

MD – Machine Direction

TD – Transverse Direction

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

PACKAGING AND STORAGE

MilCorr VpCI Shrink Film is available in sheeting and tubing form.

The film thickness is 10 mils (250 microns).

Please contact Cortec for minimum quantities and specific sizes. Film should be stored indoors at ambient conditions, sealed in original packaging. Under these conditions, shelf life is up to 24 months.

Note: The data contained herein is furnished for information only. One or more United States or foreign patents or patent applications may cover this product.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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