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## HIGH PERFORMANCE VpCI® PACKAGING

# Cor-Pak® EX VpCI® Film



### PRODUCT DESCRIPTION

Cor-Pak EX VpCI Film is made using high-density polyethylene and extruding with Vapor phase Corrosion Inhibitors (VpCI) to protect ferrous and most non-ferrous metals from corrosion. Simply wrap the metal object with Cor-Pak EX film. The VpCI in the film volatilizes and migrates with air then condenses on all metal surfaces, reaching all exposed and recessed areas.

Cor-Pak EX VpCI Film provides a high level of corrosion inhibitor protection along with the excellent moisture barrier properties of high-density polyethylene film. It is unaffected by most solvents, strong acids, and alkalis.

Incorporating Cortec's proven Vapor phase Corrosion Inhibitors, Cor-Pak EX VpCI Film is the ideal solution when a combination of multimetal and mechanical protection is desired.

### FEATURES

- Transparent
- Flexible
- Lightweight
- Strength & Conformability
- High Density Polyethylene Substrate
- Low Cost

### BENEFITS

- Allows visual inspection without unwrapping
- Excellent for interleaving and wrapping
- Concentrated level of VpCI for maximum quick protection
- Priced to compete effectively with VpCI paper
- Easy-to-wrap product

- Low shipping costs
- Film will not tear or puncture when packaging oddly shaped parts
- Universal protection
- Protection against moisture superior to that offered by papers
- Reduces moisture and sulfur contamination found in VPI paper and corrugated containers
- Economical protection
- Extremely effective corrosion inhibitor protection
- Protects ferrous and most non-ferrous metals and alloys
- Environmentally friendly
- Good moisture barrier
- Recyclable

### METALS PROTECTED

- Carbon steel
- Galvanized steel
- Stainless steel
- Copper and alloys
- Aluminum and aluminum alloys
- Brass
- Zinc

### ADDITIONAL BENEFITS

- Highest performing VpCIs made
- Vapor phase inhibition protects inaccessible and recessed surfaces
- If VpCI layer is disturbed by opening the package, protection is restored by closing the package
- Protected parts can be used immediately without degreasing or cleaning
- No spraying, wiping, dipping, or surface preparation of metal required
- Convertible to a wide variety of sizes of liners to protect small or large parts

### THE APPLICATIONS

Cor-Pak EX VpCI Film provides corrosion protection to products, interleaved, wrapped, or shrouded. It represents excellent economical, and aesthetically pleasing replacements for VCI/VPI papers.



## ADDITIONAL APPLICATIONS

- Parts and components
- Tools
- Bin and box liners
- Electrical motors and mechanical controls
- Electrical and electronic assemblies and components
- Interleaving of coils and sheets
- Foam-in-place applications
- Bearings
- Interleaving of trays for parts storage/handling

## METHOD OF APPLICATIONS

When using Cor-Pak EX VpCl film, metal items should be completely wrapped or shrouded to prevent the entry of moisture or air.

## TYPICAL PROPERTIES

Form Extruded high-density polyethylene film  
 Appearance Transparent film  
 Thickness 1.0-1.25 mil (25-35 microns)

## EXAMPLE

Barrier properties of various packaging materials

Materials	Grams of moisture transmitted per 24 hr. period	
	100 in <sup>3</sup>	cm <sup>2</sup>
Barrier Films	0.0	0.000
Cor-Pak Ex Film	0.5	0.0008
45 lb. Kraft PE Coated Paper	0.5	0.0008
1-mil Low-Density Polyethylene	0.9	0.0014
35 lb. Kraft Paper	Unlimited*	

## FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT SAFETY DATA SHEET FOR MORE**

## INFORMATION

### LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

## MECHANICAL PROPERTIES

Property		Test Method	Units	Average
Caliper		ASTM D6988		1.25
Breaking Factor	MD	ASTM D882-02	lbs/in	7.06
	TD			4.69
Tensile Strength at Break	MD	ASTM D882-02	psi	4976.58
	TD			3304.19
Elongation at Break	MD	ASTM D882-02	%	673.44
	TD			787.27
Yield Strength	MD	ASTM D882-02	psi	2315.75
	CD			244.34
Tear Strength	MD	ASTM D1922-06a	mN	130.47
	CD			3861.22
Puncture Resistance		MIL-STD-3010B, TM 2065	lbf	2.03
Dart Drop Impact Resistance		ASTM D 1709-04, Test Method A	grams	<37.6
Coefficient of Friction	Static	ASTM D1894		0.22
	Kinetic			0.22

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

*\*Will allow all moisture to pass through in a 24 hour period*

## PACKAGING AND STORAGE

Cor-Pak EX VpCl film is available in rolls and sheets in standard and custom sizes. Contact Cortec for minimum quantities and specific sizes.

This product should be stored indoors at ambient temperature, sealed with their original packaging. Under these conditions, shelf life is up to 24 months.

**Note:** When Cor-Pak EX VpCl film is used with petro-based coatings, there is a possibility of gel ink transfer.



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