



## HIGH PERFORMANCE VpCI® PACKAGING

# CorShield® VpCI®-146

## Corrosion Inhibiting Paper Powered by Nano VpCI® Technology



### PRODUCT DESCRIPTION

Cortec® VpCI-146 is the premium corrosion inhibiting paper in the industry. Our patented Vapor Phase Corrosion Inhibiting (VpCI) technology has revolutionized the way metals are protected in an enclosed package. Cortec VpCI-146 paper provides superior corrosion protection for both ferrous and non-ferrous metals. Cortec VpCI-146 multimetal paper eliminates the need for a variety of papers for all different types of metals and alloys you need to protect. Cortec VpCI-146 is fully recyclable/repulpable, which means VpCI-146 can be recycled into other types of paper products such as boxes, cardboard and other corrugated materials. It also means that VpCI-146 can be “repulped” or made into or mixed with pulp to make new paper products. Additionally, VpCI-146 is environmentally safe, non-toxic, biodegradable, and doesn’t contain any nitrites, phosphates, or silicates.

Cortec VpCI-146 paper is made from the highest quality neutral natural Kraft paper: our paper is made without the use of chlorine or other chemical bleaching. This eliminates package contamination found with other competing VCI/VPI papers. VpCI-146 is easy to use. There are no chemical concentrations to calculate, no chemical tanks, or application system to maintain. Just wrap your products in the paper and fold edges together. Use adhesive tape as needed to hold paper folds in place. The VpCI coating on the paper vaporizes, reaching all metal surfaces to provide complete corrosion protection. The unique inhibiting action of Cortec VpCI forms a very thin and very effective protective layer that does not alter the appearance of products or require removal before further finishing or use. Parts protected with VpCI-146 can be painted, welded, and soldered. VpCI-146 protective layer does not influence physical properties of most sensitive electrical components, including conductivity and resistance.

### TYPICAL APPLICATIONS

Cortec VpCI-146 paper can be used to protect products for storage and shipment in a wide variety of ways: single item packaging or interleaving, end closures for shipping tubes, insert strips for recessed areas in large packages, and as sheet liners or separators between products.

Other typical applications are:

- Metal producing: coils, wire reels, plate, bar, etc.
- Metal forging and die casting: raw and machined forgings and castings.
- Metalworking: stamping, sheet metal work, springs, bearings, fasteners, tube, pipe, nails, etc.
- Finished products: engines, machinery, equipment, tools, hardware, appliances, instruments, motors, etc.
- Electrical and electronic components, controls, etc.

### FEATURES

- One product for all ferrous and non-ferrous metals.
- Non-toxic. Contains no nitrites, phosphates, silicones, chromates, or other heavy metals.
- Fully recyclable, repulpable.
- Effective against aggressive environments including humidity, SO<sub>2</sub>, H<sub>2</sub>S, and galvanic corrosion from dissimilar metals.
- Conforms to military specifications MIL-PRF-3420.
- Protective layer does not need to be removed prior to further surface finishing or coating application.
- Protects dry or oiled metals during storage, transit, and overseas shipment.
- Natural grade paper eliminates package contamination.
- Combines corrosion protection and packaging into one step.
- Tested by Zagreb, Croatia, Department of Health, for use on food articles.



## METALS PROTECTED

- Carbon Steel
- Stainless Steel
- Galvanized Steel
- Cast Iron
- Aluminum Alloys
- Copper
- Brass ( $\leq 30\%$  Zn)
- Solder

## METHOD OF APPLICATION

Products should be packaged as soon after cleaning as possible, but completely dried of residual water. Keep the VpCI paper as close to the surface of the product as practical, leaving no barrier between the VpCI paper and the metal surface to be protected.

**Standard Construction:** Neutral natural Kraft paper, coated with VpCI material. The paper contains printed logo on reverse side to the coating.

## TYPICAL PROPERTIES

Property	TAPPI Method	Unit	VpCI-146	
Basis Weight, lbs.	T-410	lbs/3000ft <sup>3</sup> (g/m <sup>2</sup> )	35 $\pm$ 2 (57 $\pm$ 3)	60 $\pm$ 3 (97 $\pm$ 5)
Caliper (thickness)	T-411	Miles ( $\mu$ m)	3.7 (93)	6.7 (170)
Tear-MD	T-414	gms	32	114
Tear-CD	T-414	gms	45	135
Smoothness	T-538	Sheffield	200	280
Smoothness VpCI side	T-538	Sheffield	250	300

CD = Cross Direction  
MD = Machine Direction

## PACKAGING AND STORAGE

Standard sizes: Converter rolls 48" x 11,000 feet (1.22 m x 3,353 m), roll stock 36" x 200 yards (0.91 m x 183 m), 48" x 200 yards (1.22 m x 183 m), and sheeting perfed on the roll 12" x 12" (0.31 m x 0.31 m). Custom sizes and constructions available upon request, in both a 35 lbs and 60 lbs/3000sq. ft. paper. Shelf life is 24 months.

## FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY SEALED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT SAFETY DATA SHEET FOR MORE INFORMATION**

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