



**CORTEC**  
CORPORATION

*Environmentally Safe VpCI®/MCI® Technologies*

## Corrosorber® VpCI® Paper Tarnish Inhibiting Packaging Powered by Nano VpCI®

### DESCRIPTION

Corrosorber® VpCI® Paper is a tarnish inhibiting packaging paper specifically for precious metals such as silver, gold, and tin. Corrosorber® VpCI® Paper is a unique product; one side of the paper has a special coating that scavenges or seeks out H<sub>2</sub>S gas. When a significant amount of H<sub>2</sub>S gas has been absorbed by the paper, the paper will change from light green to a darker color. On the other side of Corrosorber® VpCI® Paper is a corrosion inhibitor that will protect precious metals for up to two years or until the opposite side of the paper has significantly darkened. Corrosorber® VpCI® Paper will eliminate the need for coatings and tarnish removers that are often associated with precious metals. With Corrosorber® VpCI® Paper, you can rest assured that your valuable precious metals will have the same appearance as prior to packaging. Corrosorber® VpCI® Paper will in no way affect further processing of the precious metal or affect physical properties such as conductivity or surface resistivity.

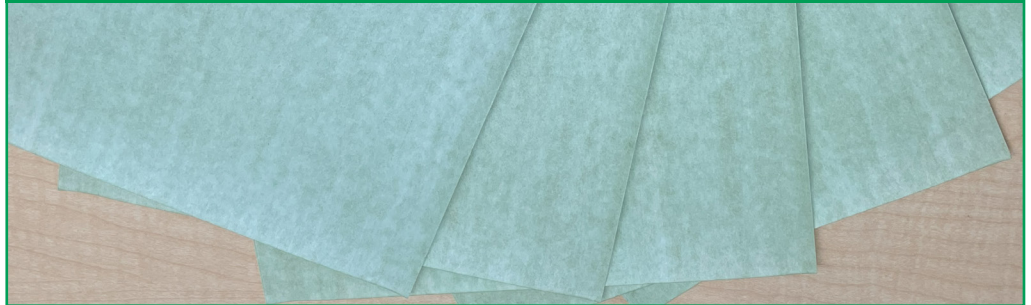
### PACKAGING & STORAGE

Available in standard and custom sized rolls and sheets.

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

- Contains hydrogen sulfide scavenger and saturation indicator
- Effective against aggressive environments including humidity, SO<sub>2</sub>, H<sub>2</sub>S, and galvanic corrosion from dissimilar metals
- Combines protection from tarnish and packaging into one step
- Worker safe: contains no nitrites, phosphates, silicones, chromates, or other heavy metals

### APPLICATION

Corrosorber® VpCI® Paper can be used to protect products for storage and shipment in a wide variety of ways. Use Corrosorber® VpCI® Paper for single or multiple item packaging.

- Electrical components, controls, etc.
- Jewelry and other finished goods
- Precious metal shipping container linings
- Silver solder wire

Corrosorber® VpCI® Paper is a multicolored paper. One side is white and the other is green. When packaging, face the white side of the paper toward the metal. The opposite side of the paper, which is green, will then absorb contaminants, thus preventing them from reaching the surface of the metal.

Corrosorber® VpCI® Paper is simple to use. Products should be packaged as soon after cleaning as possible, but completely dried of residual water. Keep Corrosorber® VpCI® Paper as near the surface of the product as is practical, leaving no barrier between the Corrosorber® VpCI® Paper and the metal surface. Wrap the paper around your precious metals and fold the edges of the paper together so there is no free airflow. Corrosorber® VpCI® Paper can also be used as insert strips for recessed areas in large packages, as sheet liners, or as separators between products. The VpCI® coating on the paper will vaporize, reaching all metal surfaces to provide complete corrosion inhibition. Many tarnish inhibitors need to be removed after use, but with Corrosorber® VpCI® Paper there is no removal needed of the inhibitor.

# Corrosorber® VpCI® Paper

## METALS PROTECTED

- Silver
- Copper
- Gold
- Brass
- Tin
- Aluminum alloys
- Iron alloys

### Hydrogen Sulfide Cycling Test Results (122 °F [50 °C]/16 hours, 77 °F [25 °C]/8 hours)

H <sub>2</sub> S Concentrate	
Sample	Result
Unprotected Silver	Heavy tarnish
Silver Protected with Corrosorber® VpCI® Paper	No visible tarnish



## TYPICAL PROPERTIES

	Method	Unit	Corrosorber® VpCI® Paper
Basis Weight	T-410	lbs/3000 ft <sup>2</sup> (g/m <sup>2</sup> )	40 (60)
Caliper (thickness)	T-411	mils (µm)	3.35 (85)
Tear - MD	T-411	grams	48
Tear - CD	T-411	grams	41
Puncture Resistance	ASTM D3420-45B	grams	195



4119 White Bear Parkway, St. Paul, MN 55110 USA  
 Phone (651) 429-1100, Fax (651) 429-1122  
 Toll Free (800) 4-CORTEC  
 productinfo@corotecvci.com  
<https://www.corotecvci.com>  
<https://www.corotecpackaging.com>



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