

EcoBio™ VpCI®-144 Barrier Paper

DESCRIPTION

EcoBio™ VpCI®-144 Barrier Paper is a premium recyclable, repulpable, biodegradable corrosion inhibiting barrier paper designed with the circular economy in mind. Made from 100% recycled paper stock treated with Cortec's time-tested Vapor phase Corrosion Inhibitor (VpCI®) coating on one side and a biobased, biodegradable barrier coating on the other side, this paper provides a competitive alternative to polyethylene and wax paper for resisting moisture, grease, oil, and corrosion.

Historically, polyethylene and wax coatings have been used to provide a moisture barrier. The resulting paper product is more difficult to recycle through normal channels and may end up as landfill waste. In contrast, the VpCI® and barrier coatings used on EcoBio™ VpCI®-144 Barrier Paper allow the paper to be recyclable in standard paper recycling streams while also being biodegradable.

PACKAGING & STORAGE

Available in a wide variety of custom roll/sheet sizes and coating weights. Different paper weights and types available on request.

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

CORROSION INHIBITING VpCI® PACKAGING



FEATURES

- Dual corrosion and barrier protection
- Repulpable (fiber recovery 99.99% per FBA Repulpability Protocol 2025)
- Biobased barrier coating (90-100% renewable organic carbons per ASTM D6866)
- Biodegradable VpCI® (ASTM D6400) and barrier coating (OECD 301)
- Conforms to NACE Standard TM0208-2024
- Commercially equivalent to military specifications MIL-P-3420E
- Contains no nitrites, phosphates, silicones, chromates, or other heavy metals
- No intentionally added plastics, PFAS, or fluorochemicals

BENEFITS

- One paper protects ferrous and non-ferrous metals from corrosion and resists water, oil, and grease
- Parts packaged in EcoBio™ VpCI®-144 Barrier Paper do not need to be cleaned prior to coating or other surface finishing applications

APPLICATION

EcoBio™ VpCI®-144 Barrier Paper can be used in a variety of applications, such as packaging oily and greasy metals or protecting moisture-sensitive components.

Simply wrap items in the paper with the unprinted side facing the metal and fold the edges together, taping as needed to hold the paper in place. The VpCI® coating on the paper vaporizes, reaching all metal surfaces within the package to provide complete corrosion protection with a very thin, very effective VpCI® layer that does not alter product appearance or require removal before further finishing or use. The barrier coating keeps moisture, oil, and grease within the packaging and resists moisture on the outside.

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METALS PROTECTED

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

TYPICAL PROPERTIES

Property	Units	Value	
Basis Weight	lbs/3000 ft ² (g/m ²)	35±1.5 (57±2.5)	
Caliper	Mils (µm)	4.0±0.2 (100±5)	
Tear Strength	gms	CD*	50±5
		MD*	70±10
Tensile Strength	lb/in (N/mm)	23 (4)	
Burst Strength (Mullen Test)	Psi (kPa)	20 (138)	

*CD = Cross Direction
*MD = Machine Direction

WATER VAPOR BARRIER PROPERTIES

	EcoBio™ Barrier Paper	Polycoated Paper	Wax Paper
WVTR* (g/hour•m ²)	0.7-1.8**	0.47-0.71	6.5-6.9

*Tested according to ASTM E-96, 73 °F (23 °C), 50% RH
**Depending on coating weight; contact Cortec® Technical Service for details

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