Product Data

MASTER SHIELD FE70

Nitrite-Free Corrosion Inhibitor VCI Paper

Description



MasterShield® FE70 VCI paper is a 65 g/m² (40 lb/ream) natural kraft saturated with a nitrite-free corrosion inhibitor formulation designed to protect ferrous metals during in-process manufacturing, transport (especially export) and storage without need for surface applied oils or rust protective liquids. Distinctly developed to meet the specific requirements for transporting and storing automotive, heavy equipment and other metals throughout the world, MasterShield papers are excellent for wrapping and protecting steel. MasterShield FE70 has corrosion inhibitors on both sides and 6-language print on one side to identify

it as valuable packaging for metals.

Features

Proven Daubert Cromwell corrosion inhibitor chemistry

- Metals protected: Steel, cast iron, and ferrous alloys
- RoHS and TRGS 615 compliant; TL 8135
- Nitrite-Free
- OEM approved
- Contains no heavy metals, phosphates, or secondary amines
- Non-toxic, safe and easy to use; no special handling required
- Replaces oil, grease, and traditional corrosion prevention methods.
- Parts remain clean, dry and ready to use immediately
- Compatible with Daubert Cromwell rust preventive liquids, emitters and films.
- Available in rolls, cut sheets, custom sizes.
- Fully recyclable and re-pulpable

Transport, export and storage of:

Typical Applications

- Fabricated metal components and assemblies
- Engines and large machinery
- Assemblies, frames, stampings, doors, etc.
- Bearings, gears, valves and pistons
- Brake parts, automotive parts

To use, wrap or layer clean parts in MasterShield FE70 paper. Place within 200-300mm of the metal. The corrosion inhibitors will form a protective molecular layer on the surface of the metal. When the parts are unwrapped, the protective layer immediately begins to dissipate. Parts are clean, corrosion-free and ready to use. No further processing is necessary prior to use.

MasterShield[®] Product Family Product **Basis Weight** Construction Description Protection MasterShield FE50 49 g/m² (30 lb/ream) Natural Kraft **General Protection** Ferrous MasterShield FE70 65 g/m² (40 lb/ream) Natural Kraft General Protection Ferrous MasterShield FE90 81 g/m² (50 lb/ream) Natural Kraft **General Protection** Ferrous High Strength. MasterShield PFE90 85 g/m² (52 lb/ream) Poly-Coated Kraft Ferrous moisture resistant





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Technical Data

MASTER W SHIELD FE70

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Physical Data	Physical Properties		Typical Values		
		Units	Typical Value		Test Method
	Finished Weight	g/m² (Ibs/ream)	76.5 (47	7)	T-410
	Gauge	μm (mil)	107 (4.2)		T-411
	Mullen Burst Strength	kPa (psi) 199 (28.9)			T-403
			Machine Direction	Cross Direction	
	Tensile Strength	kN/m (lb/in)	4.3 (24.3)	2.6 (15.0)	T-494
	Elongation	%	2.4	4.1	T-494
	Elmendorf Tear Strength	N/ply (gf)	0.64 (65.6)	0.69 (70.4)	T-414
	Protection Time				
	Inside Dry Storage				24 months minim
	Metal	Protection			
	Mild Carbon Steel, Cast Iron		rotection in contact and var	or phases.	
	Aluminum (1100) Not recommended.				
	Zinc or Zinc Galvanized Stee		nded⁴. UWMPI, Ferro-Galv, (or Uniwrap [®] 200 recomm	ended.
	Copper, Copper Alloys	Not recommer	nded. Coppertex [®] or UWMP	lor Uniwrap [®] 200 recom	mended.
	Bronze, Bronze Alloys		nded. Coppertex [®] or UWMP	I or Uniwrap [®] 200 recom	mended.
	Tin, Tin Plated Steel	Provides Prote			
	Category A ² Category B ³	Not recommer Not recommer			
	Category D Not recommended.				
Storage	applications. Store in a cool, dry place, a v temperatures.	way from direct sunlig	nt. Avoid storing outdoor	rs, in high humidity, or	at high
	24 months from date of ship high humidity and not at hig			used by Da ubert Crom	nwell and not in
Approvals	RoHS2, TL 8135, TRGS 61	5, VW, OEM tested a	nd specified.		
	WARRANTY The data, statement specification sheet are based on testing, has been carefully conducted by us, a recommendations will serve as reliable represent typical values and are not However, this product is subject to nu which we have no control, and accordin suitable for any particular use. Users ar make certain it is suitable for their pa products manufactured by us are warra	research and other development and we believe such data, stat guidelines. Physical properties sl intended for use in writing sp imerous uses under varying con gly, we do NOT warrant that thi e advised to test the product in articular production conditions a	work, which ements and nown above vecifications. s product sin your pla titions over s product sin your pla advance to nd steek. All differe from the specifications s product sin your pla advance to the specifications advance to the specifications the specifica	d workmanship. Liability under thi such products proven defective or roducts upon their return to us tra must be made in writing within 31 nt and prior to further process. We make no warranty, express is s for any particular use, and we ulting from their use in operation jusive of all other warranties, s or any other person is authoriz with the sale of our products.	, at our option, to the repu- insportation prepaid. All do days after the receipt of ing or combining with co- or implied, as to the suita shall not be subject to lia s not under our direct com- express or implied, and



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