Product Data

MASTER W SHIELD FE50

Nitrite-Free Corrosion Inhibitor VCI Paper

Description



MasterShield FE50 VCI paper is a 49 g/m² (30 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 FE50 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

Fabricated metal components and assemblies

Assemblies, frames, stampings, doors, etc.

- 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:

Engines and large machinery

Bearings, gears, valves and pistons Brake parts, automotive parts

Typical Applications







MasterShield[®] Product Family

and ready to use. No further processing is necessary prior to use.

Product Name	Basis Weight	Construction	Sizes
MasterShield FE50	49 g/m² (30 lb/ream)	Natural Kraft	Rolls, Sheets
MasterShield FE70	65 g/m² (40 lb/ream)	Natural Kraft	Rolls, Sheets
MasterShield FE90	81 g/m² (50 lb/ream)	Natural Kraft	Rolls, Sheets
MasterShield PFE90	85 g/m² (52 lb/ream)	Poly-Coated Kraft	Rolls, Sheets
MasterShield GFE50	49 g/m² (30 lb/ream)	Natural Kraft	Rolls, Sheets

To use, wrap or layer clean parts in MasterShield FE50 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

> TL 8135 TRGS 615





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Technical Data

MASTER SHIELD FE50

Nitrite-Free Corrosion Inhibitor VCI Paper

Physical Data	Physical Properties	Physical Properties* Typical Values			
		Units	Typical Va	lue	Test Method
	Basis Weight	g/m² (lb/ream)	60 (37)		T-410
	Gauge	μm (mil)	85 (3.3)		T-411
	Mullen Burst Strength	kPa (psi)	135.9 (19.	7)	T-403
		М	achine Direction	Cross Direction	
	Tensile Strength	kN/m (lb/in)	4.62 (26.4)	2.15 (12.3)	T-494
	Elongation	%	1.9	4.8	T-494
	Elmendorf Tear Strength	N/ply (gf)	0.33 (33.6)	0.39 (39.3)	T-414
	Protection Time				
	Inside Dry Storage				24 months minimu
	Metal	Protection			
	Mild Carbon Steel, Cast Iron	Provides full protect	ion in contact and vapo	or phases.	
	Aluminum (1100)	Not recommended.			
	Zinc or Zinc Galvanized Steel			r Uniwrap [®] 200 recomme	
	Copper, Copper Alloys Bronze, Bronze Alloys			or Uniwrap [®] 200 recomn or Uniwrap [®] 200 recomn	
	Tin, Tin Plated Steel	Provides Protection	coppertex of owner		nendeu.
	Category A ²	Not recommended.			
	Category B ³	Not recommended.			
	Store in a cool dry place awa				
Storage	temperatures.	y from direct sunlight. Av	old storing outdoors	s, in high humidity, or a	at high
Storage Shelf Life		ng, stored in the original,	shipping container u		
	temperatures. 24 months from date of shippin	ng, stored in the original, emperatures, or stored o	shipping container u utside.		
Shelf Life	temperatures. 24 months from date of shippin high humidity and not at high t RoHS2, TL 8135, TRGS 615,	and recommendations in this pro- search and other development work, a d we believe such data, statements idelines. Physical properties shown a tended for use in writing specifica erous uses under varying conditions y, we do NOT warrant that this prod advised to test the product in advan cular production conditions and us	shipping container u butside. specified. defects in material and purchase price of any s ions. wer on defective products i products in your plan over of any of our products of any of our products from any damages rest. This warranty is exct from any damages rest.		well and not in



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