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PROTECT 100-VCI MIL-PRF-131K Type I Class I Data Sheet

Heavy Duty, High Barrier, Volatile Corrosion Inhibiting Material
Structure description: BON/PE/Foil/VCI Coex

Product Description: A heavy duty, laminated nylon/aluminum foil/polyethylene structure with special ferrous corrosion inhibitor formulation in the PE film layer. The innermost layer, the sealant layer, is laminated to the foil and nylon for very high barrier protection against oxygen and moisture. The VCI is trapped within the structure for long term corrosion protection. This laminate offers excellent oxygen and moisture barrier properties with superior physical properties while providing corrosion protection to a wide range of metal types.

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUES	UNITS	TEST METHOD
Film Gauge	7.9	mil	ASTM D2103
Tensile Strength		lbs/in	
Machine	25		ASTM D882
Cross	25		
Heat Seal Strength	25	lbs/in @ 435 °F, 60 psi, 3.0 sec.	ASTM F88
Seal Range (°F)	375 to 440		CPTM
Tear Strength	>400	Grams	ASTM D1922
WVTR	0.0005	g/100in ² /day @ 90% RH 40 °C	ASTM F1249
OTR	0.0005	cc/100 in ² /day @0% RH, 23 °C	ASTM D3985
Puncture Resistance	26	lbs	FED STD 101
Suggested Sealing Conditions	435 °F, 60psi, 3.0sec		

Disclaimer:
 The data presented refers to typical values only and should serve only as a guide and does not encompass normal variability, or constitute any warranty. We urge purchasers to conduct tests for suitability in their specific end use.