

MIL-PRF-16173E

USA MILITARY-SPECIFIED, SOLVENT-CUTBACK CORROSION PREVENTIVE COMPOUNDS

DESCRIPTION

NOX-RUST® has been a preferred brand for the US Military for rust preventive coatings, protecting the largest equipment in every branch of the armed forces. All products listed below are approved by MIL-PRF-16173E. These general-purpose rust preventive coatings are classified into 5 “grades” with each grade available in two class types. Class 1 grades are the conventional grades and can be used where VOC is not a concern. Class 2 grades are all available with a VOC level of 2.8 pounds per gallon or less. **NOX-RUST®** products are approved in 4 of the 5 grades, and class 1 and 2 options available in Grades 1-3.

APPROVED FOR MIL-PRF-16173E PERFORMANCE SPECIFICATION

LABORATORY DATA	Grade 1		Grade 2		Grade 3		Grade 4
	501-LS Class 1	501 Class 2	502-DLS Class 1	502-DHS Class 2	503-DLS Class 1	503-DHS Class 2	110 DLS Class 1
Liquid Appearance	Black	Black	Amber	Amber	Amber	Amber	Amber
Dry Film Color	Black	Black	Amber	Amber	Amber	Amber	Amber
Film Type	Hard, Slightly Tacky	Hard, Slightly Tacky	Grease-like	Grease-like	Oily	Oily	Wax-like
Non-Volatiles by Weight	50.4%	65.6%	60.4%	67%	57.5%	66.2%	55.2%
Non-Volatiles by Volume	43.8%	59.6%	56.9%	62.8%	53.4%	62.2%	50.5%
Specific Gravity	0.88	0.88	0.85	0.88	0.851	0.869	0.86
Weight per Gallon	7.34	7.6	7.05	7.3	7.09	7.24	7.16
Viscosity	1,500 cPs Brookfield RV Spindle #3 @ 10 rpm	2,300 cPs Brookfield RV Spindle #3 @ 10 rpm	65 cSt @ 100°F	200 cSt @ 100°F	41 cSt @ 100°F	17.8 cSt @ 100°F	78.47 cSt @ 100°F
V.O.C. (lbs/gal minus water)	3.64	2.8	2.82	2.4	3.01	2.45	3.22
Flash Point	105°F	105°F	105°F	105°F	105°F	105°F	105°F
Dry Film Thickness	2.5 mils	2.8 mils	0.86 mils	0.9 mils	0.4 mils	0.7 mils	1.0 mil
Coverage (sq.ft/gal)	280	340	850	1,125	1,215	1,329	800
Dry Time to Touch	5 – 8 hours	5 – 8 hours	N/A	N/A	4 hours	4 hours	4 hours
Cure Time	16 hours	16 hours	30 - 45 minutes	30 - 45 minutes	24 hours	24 hours	24 hours
Removal: Wet and Dry Film	Mineral Spirits or Citrus Based Cleaners		Petroleum Solvents		Mineral Spirits or Citrus Based Cleaners		Mineral Spirits or Citrus Based Cleaners

	Grade 1		Grade 2		Grade 3		Grade 4
	501-LS Class 1	501 Class 2	502-DLS Class 1	502 DHS Class 2	503 DLS Class 1	503 DHS Class 2	110 DLS Class 1
5% Salt Spray (Hours) ASTM* B-117	864	960	168	168	N/A	N/A	1,000 hours
Weatherometer	1,200	1,200	N/A	N/A	N/A	N/A	N/A
Humidity Cabinet (Hours) ASTM*-D-1748	960	960	720	720	4,800 hours	4,800 hours	4,800 hours
Indoor Storage	5 years	5 years	5 years	5 years	2 years	2 years	5 years
Outdoor Storage	2 years	2 years	1 year (covered)	1 year (covered)	6 months (covered)	6 months (covered)	1 year (uncovered)

APPLICATION

All products can be applied by dipping, spraying, or brushing. These products are solvent based, as a result adequate ventilation is required for cure and also to prevent the formation of an explosive atmosphere.



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*ASTM (American Society for Testing and Materials)

Please Refer to SDS or Contact Daubert Chemical Company for Additional Information