

## STEEL INDUSTRY RUST PREVENTATIVES

**DAUBERT®** began business in 1935, protecting steel coils from rust and corrosion with the original **NOX-RUST®** coatings. Over the years, our technology has been refined to provide the strongest corrosion protection versus other mill oils, while balancing the needs of downstream customers to be able to remove the coating cleanly and completely. Thanks to the strong relationship **DAUBERT®** enjoys with many automotive OEMs, many of the products below have approvals by automotive customers and are used by steel companies.

**NOX-RUST® X-231** is the essential mill oil for preserving steel coils without sacrificing the cleanability required by automotive customers. **NOX-RUST® X-241M** delivers even stronger corrosion protection... suitable even near the acid fume from pickling lines.

**NOX-RUST® X-111** is a moderately waxy edge coat designed to seal the edges of steel coils that will be stored outside for longer durations and may experience some wet conditions. **X-210, X-111, and X-110** are multi-purpose, long-term rust preventives.

LABORATORY DATA	MILL OILS		EDGE COATS (and longer-term RPs)		
	X-231	X-241M	X-210	X-111	X-110
Liquid Appearance	Amber	Light Amber	Amber		
Dry Film Color	Clear		Amber		
Film Type	Oily		Non-discernible	Waxy	Firm Wax
Non-Volatiles by Weight	>99%	65.40%	10%	44%	50.80%
Non-Volatiles by Volume	>99%	60.40%	8.5%	38.10%	45.10%
V.O.C. (lbs/gal minus water)	<0.1	2.52	5.93	3.96	3.44
Viscosity	25 cSt @ 100°F	15 cSt @ 100°F	1.3 cSt @ 100°F	6.0 cSt @ 100°F	35 sec. Zahn (EZ-2)
Specific Gravity	0.866	0.888	0.791	0.86	0.868
Weight per Gallon	7.21	7.4	6.59	7.16	7.23
Flash Point	395°F	248°F	105°F	175°F	105°F
Wet Film Thickness	0.5 mil		0.8 mils	1 mil	3.5 mils
Dry Film Thickness	0.5 mil		0.1 mil	0.4 mil	1.5 mils
Coverage (sq.ft/gal)	3,200		2,000	1,500	700
Removal: Dry and Wet Film	Alkaline Cleaner				Mineral Spirits

