

CORROSION & WEAR RESISTANCE



CORROSION INHIBITORS																
PRODUCT		APPLICATION				SUBSTRATE		CHEMISTRY			CONCENTRATION	TEMPERATURE	METHOD			
PRODUCT NAME	DESCRIPTION	WIP	Storage	Shipping	Dry to Touch	Self Healing	Ferrous	Non-Ferrous	Water-Based	Oil-Based	Emulsifiable	Wax	Typical Dilution	Operating Temperature	Spray	Immersion
Freiborne Oil 3W	Water Emulsifiable Rust Preventative	X	X	X			X			X	X		7-20%	AMB-150°F	X	X
Freiborne Oil 5WXB	Water Emulsifiable Rust Preventative	X	X		X		X			X	X	X	5-20%	140-160°F	X	X
Freiborne Oil 1740	Severe Storage and Shipping Oil	X	X	X		X	X			X			Neat	70-110°F	X	X
Freiborne Oil WD50F	Oil-Based Rust Preventative	X	X				X			X			Neat	AMB	X	X
FreiGuard 171	Oil Based Rust Preventative	X	X	X		X	X	X		X			Neat	AMB	X	X
FreiGuard 303	Water Based Rust Preventative	X	X	X	X		X		X				2-10%	AMB-130°F	X	X
FreiGuard 313	Water Based Rust Preventative	X	X	X	X		X	X	X				1-10%	AMB-140°F	X	X

CONVERSION COATINGS												
PRODUCT		APPLICATION		SUBSTRATE		CHEMISTRY				CONCENTRATION	TEMPERATURE	METHOD
PRODUCT NAME	DESCRIPTION	Corrosion Resistance	Wear Resistance	Steel	Heavy Zinc Phosphate	Manganese Phosphate	Nickel	Reduced Sludge	Typical Dilution	Operating Temperature	Immersion	
Freibornite HZ-2	Corrosion Resistant Zinc Phosphate	X		X	X		X		2-3%	155-210°F	X	
Freibornite HZ-6	Corrosion Resistant Heavy Phosphate	X		X	X				3-4%	160-180°F	X	
Freibornite HZ-NS	Corrosion Resistant Zinc Phosphate	X		X	X			X	4%	160-180°F	X	
Freibornite MP	Manganese Iron Phosphate		X	X		X			8%	165-185°F	X	
Freibornite MIP	Manganese Iron Phosphate		X	X		X	X		11%	200-210°F	X	

PROCESS CLEANERS																				
PRODUCT		APPLICATION		SUBSTRATE				CHEMISTRY						CONCENTRATION	TEMPERATURE	METHOD				
PRODUCT NAME	DESCRIPTION	Process Cleaner	Corrosion Resistance	Steel	Aluminum	Galvanized	Stainless	Liquid	Alkaline	Neutral pH	Sodium	Potassium	Phosphate	Glucomate	Water-Based	Dry in Place	Typical Dilution	Operating Temperature	Spray	Immersion
Freiclean 4K	Mild Alkaline Degreaser	X		X	X		X	X	X			X	X				1-4%	150-210°F	X	X
Freiclean 10 SK	Heavy Duty Steel Cleaner	X		X				X	X			X	X				5-10%	150-200°F	X	X
Freiclean 56	Heavy Duty Steel Cleaner	X		X				X	X		X	X	X				5-15%	150-200°F		X
Freiclean NC301	Cleaner/Corrosion Inhibitor		X	X	X	X	X	X		X		X	X	X	X		2-10%	AMB-140°F	X	X