

METAL FORMING



PROCESS CLEANERS & ETCHANTS																
PRODUCT NAME	PRODUCT DESCRIPTION	APPLICATION		SUBSTRATE			CHEMISTRY					CONCENTRATION	TEMPERATURE	METHOD		
		Process Cleaning	Etching	Steel	Aluminum	Stainless	Liquid	Alkaline	Acidic	Sodium	Potassium	Phosphate	Typical Dilution	Operating Temperature	Spray	Immersion
Etchant 4	Alkaline Etchant for Aluminum		X		X		X	X		X			1-5%	140-190°F		X
Etchant 8	Acid Etchant for Aluminum		X	X	X		X		X			X	10-20%	135-165°F		X
Freiclean 4K	Mild Alkaline Degreaser	X		X	X	X	X	X			X	X	1-4%	150-210°F	X	X
Freiclean 10BLF	Heavy Duty Phosphate/Lubricant Remover	X		X		X	X	X			X		5-10%	160-200°F	X	
Freiclean 10SK	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 60-I	Acidic Aluminum Cleaner/Brightener	X1	X2	X2	X1		X		X				3-10%	90-180°F		X
Freiclean 61LF	Acidic Aluminum Cleaner/Brightener	X1	X2	X2	X1		X		X				1-10%	90-180°F	X	X