

Product Overview

AD	Chemical pretreatment																				One step pretreatment						
	Degreasing					Degreasing Etching				Degreasing Derusting		Degreasing Phosphation		Passivation after phosphating Conversion		Passivation Conversion						Passivating (Bare corrosion resistance)		Degreasing Passivating Conversion	Passivating Conversion		
	Cleaner CC-15	Cleaner ABF	Cleaner ALT	MM31®	Cleaner Neutral	Starter MM	Cleaner 502	Cleaner 504	Cleaner 506	Isoclean	Starter MM	Phosphate 06H	PreCoat CPF	PreCoat ADL 4P	MM31®	PreCoat Cr Free	PreCoat Color	PreCoat A34	PreCoat TVL	PreCoat Z31	PreCoat CPF	PreCoat A32	Passivation ADL 32	MM31®	PreCoat F31/20		
Additives																											
Detergent CN LF			+		+	+					+																
Detergent 56	+																										
Detergent CN			+		+	+					+																
Detergent 503							+	+				+	+														
Additive 20 HF (activator)							+	+																			
Substrate applicability and corrosion classes																											
Aluminum extrusion	+	+		C5(H)	+	+	+	+/-	+		+	C5(L)	C5(L)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	+		C5(H)	C5(H)		
Aluminum plate	+	+		C5(H)	+	+	+	+/-	+		+	C5(L)	C5(L)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	+		C5(H)	C5(H)		
Cast aluminum		+		C4(H)	+	+		+			+	C3(H)	C3(H)	C4(H)	C5(M)	C5(M)	C5(M)	C5(M)	C5(M)	C5(M)	C5(M)	C5(M)		C5(M)	C5(M)		
HDG (Hot-Dip Galvanized)	+	+	+	C5(M)	+	+		+		+/-	+				C5(M)				C5(L)	C5(M-H)	C5(M-H)		+	C5(M)	C5(M)		
Sendzimir	+	+	+	C4(H)	+	+	+	+		+	+	C4(M)	C4(M)	C4(H)	C5(M)				C5(L)	C5(M-H)	C5(M-H)			C5(M)	C5(M)		
Zincor	+	+	+	C4(H)	+	+	+	+		+	+	C4(M)	C4(M)	C4(H)	C5(M)	C4(M)	C4(M)	C4(M)	C4(M)	C4(M)	C4(M)			C5(M)	C5(M)		
SS AISI 304	+	+	+	C5(H)	+	+				+	+	C5(L)	C5(L)	C5(M)	C5(H)	C5(L)	C5(L)	C5(M-H)	C5(M-H)	C5(M-H)	C5(M-H)			C5(H)	C5(H)		
SS AISI 316	+	+	+	C5(H)	+	+	+	+	+	+	+	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)	C5(H)			C5(H)	C5(H)		
Steel	+	+	+	C5(M)	+	+				+	+	C4(L-M)	C4(L-M)	C5(M)	C5(M)									C5(M)	C5(M)		
Application																											
Spray	+	+		+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+			+	+		
Dip	+	+	+		+	+	+	+			+	+	+	+		+	+	+	+	+	+	+	+		+		
Manual				+										+										+	+		
High pressure				+	+	+			+	+	+	+	+	+	+									+	+		
Product properties																											
Strong Alkaline			+																								
Mild Alkaline	+	+									+																
Neutral					+	+					+																
Acid							+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+		
Chrome free																+	+										
Chrome (III)				+										+				+	+	+			+	+	+		
Quality label (complies with or certified)																											
Qualicoat				+										+		A-021	A-096	A-126	+	+	+			+	+		
Qualmarine				+										+		+	+	+	+	+	+			+	+		
GSB				+										+		250 a	+	+	+	+	+			+	+		
Qualisteelcoat				+								+	+	+	+					+	+			+	+		

Disclaimer
 This table has been compiled through a combination of practical experience and laboratory research. The overview provides a general guideline, assessment will be necessary for each substrate and situation.