

Anodizing and Aluminum Finishing: A Complete Portfolio

Chemetall provides a complete portfolio of environmentally sound solutions, including chrome-free, phosphorus-free, and NPE surfactant-free products as well as a full line of high performance anodizing technology. From superior cleaners to conversion coatings, Chemetall's aluminum finishing products deliver outstanding cleaning, surface finishing uniformity, and long-lasting corrosion protection.



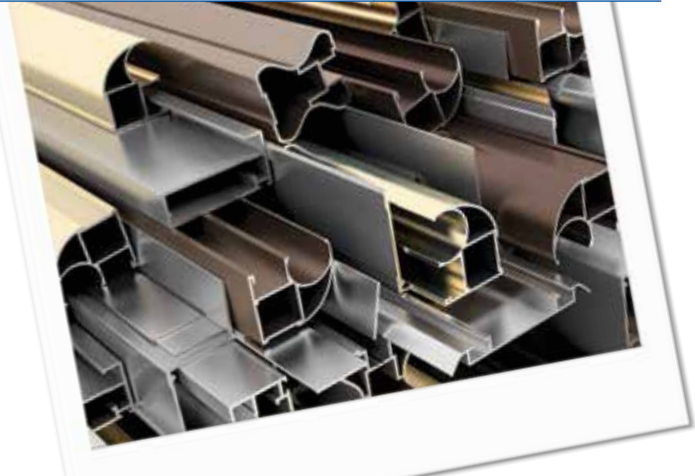
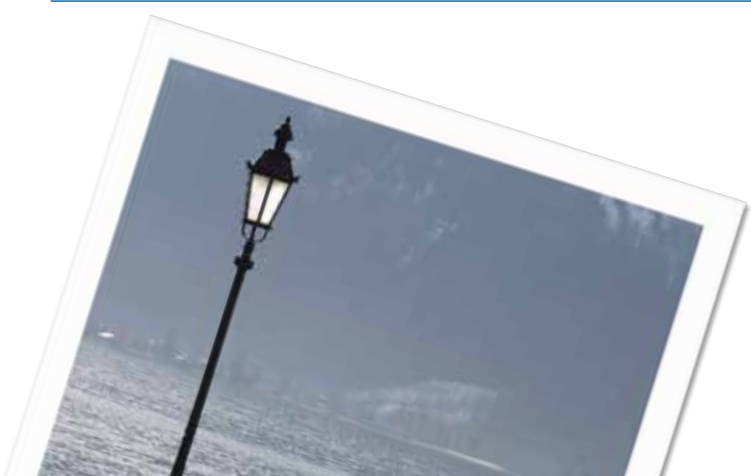
	Spray	Immersion	Liquid	Powder	Etching	Low Etch
ALKALINE CLEANERS						
Gardoclean® 338 U Heavy-duty, etching spray cleaner. NPE surfactant-free.	+			+	+	
Gardoclean S 5339 Spray cleaner for extruded, wrought and cast alloys. Minimal surface attack. NPE surfactant-free and silicate-free.	+		+			+
Gardoclean T 5281/1 Economical cleaner formulated for anodizing lines. Borate-free.		+	+			+
Gardoclean T 5316 Non-silicated immersion cleaner for all aluminum alloys.		+	+			+
Gardoclean TP 10367 Economical, mid-duty, highly alkaline cleaner for cleaning and etching aluminum. NPE surfactant-free.	+		+		+	
Inpro-Clean 2500 Heavy-duty, non-silicated spray cleaner. Minimal surface attack. NPE surfactant-free. Good for MIL-DTL-5541 chromate lines.	+			+		+
Inpro-Clean 3800 Silicated cleaner, designed for removing buffing compounds. Phosphorus-free.		+	+			
Low Heat Cleaner 1 Heavy-duty, etching cleaner for immersion applications. NPE surfactant-free.		+		+	+	
Oakite® 61 B Inhibited, alkaline cleaner for aluminum. Great for removing stencil identification inks, oils, and shop soils. Good for MIL-DTL-5541 chromate lines. Boeing approved. NPE surfactant-free.		+		+		
STC Low foaming, premium quality detergent for the most demanding aluminum cleaning jobs.	+	+	+		+	

BASF
We create chemistry

Chemetall
expect more+

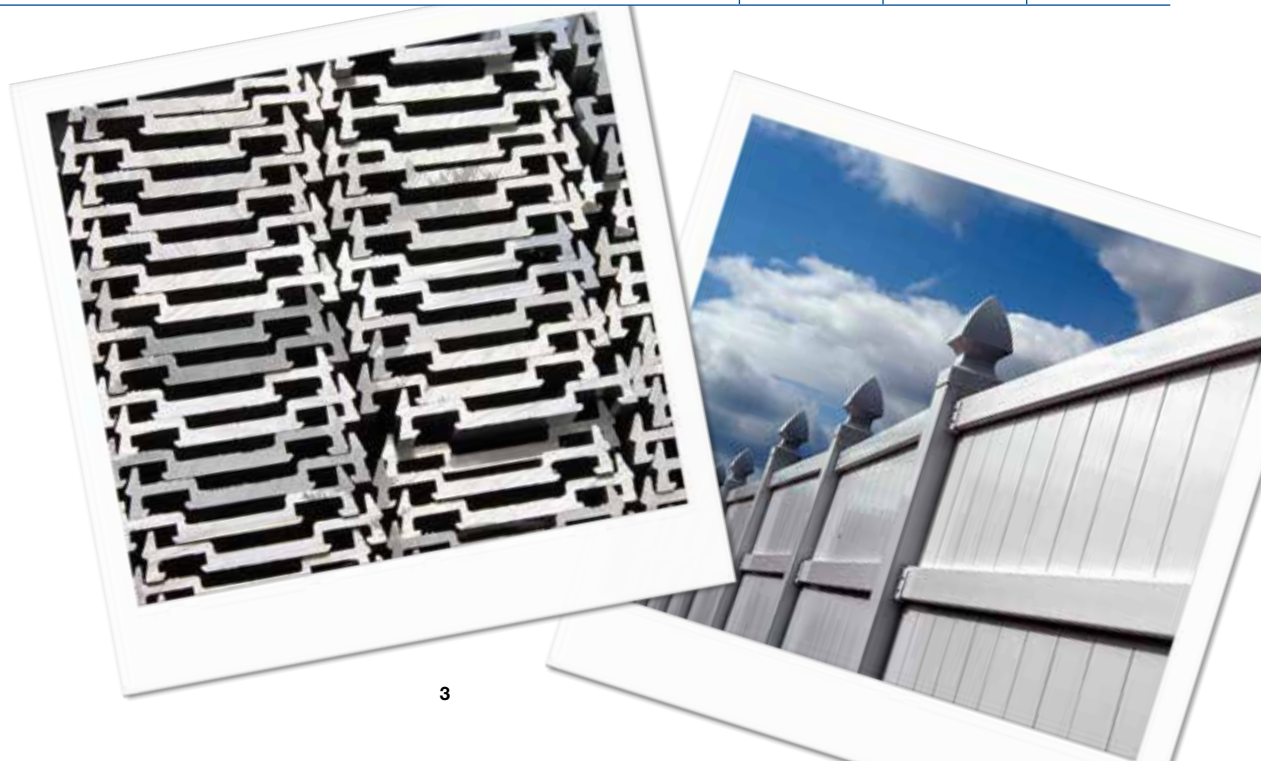
	Spray	Immersion	High Etch	Moderate Etch
ACIDIC CLEANERS				
CrysCoat™ 2147 Acidic cleaner for spray applications. Lower etch rate than Gardacid P 4462/1. NPE surfactant-free.	+			+
Gardacid® P 4307 Highly concentrated acid, used to pickle aluminum. NPE surfactant-free.	+	+	+	
Gardacid P 4462/1 Etching acidic cleaner for spray applications. Sulfuric-based. NPE surfactant-free and phosphorus-free.	+		+	
Gardoclean T 5288 Specially formulated to clean polished aluminum and remove polishing pastes, without any attack or loss of gloss.		+		
TecnoClean® Specifically formulated to clean aluminum and its alloys for immersion applications. NPE surfactant-free.		+		+

	Powder	Liquid
ETCHANTS AND BRIGHTENERS		
Gardacid B 4471 Electrolytic brightener for aluminum. This ready to use product creates highly polished and reflective surfaces.		+
Gardo® Etch 8300/5 Long life additive for highly etched surfaces. Meets EURAS E6 specification. May be used in conjunction with Oakite 160 and Oakite 360L.		+
Gardo Etch 8301 High aluminum complexing additive for very lightly etched surfaces. Meets EURAS E0 specification. May be used in conjunction with Oakite 160 and Oakite 360L.		+
Gardo Etch 8315/8316 Two component, acid etch product which creates a decorative bright, yet matte finish at lower temperatures, with less metal removal than conventional alkaline etches.	+	
Oakite 160 Economical etch which produces a matte finish. A chelated product which will help retard scale build up. Boeing and Lockheed Martin approved.	+	
Oakite 360L Convenient liquid formulation which combines uniform etching, with a light cleaning action.		+



	Chrome	Non-Chrome
DEOXIDIZERS		
Deoxidizer™ 34L Liquid product, contains no fluoride.	+	
Deoxidizer 126 Premium iron-free product. Add to nitric, sulfuric and/or hydrofluoric acids.		+
Deoxidizer LNC Premium, iron-based liquid deoxidizer. Boeing and Lockheed Martin approved.		+

	Chrome Phos	Cr VI	Cr III
CHROME PRETREATMENTS			
CHEMEON® TCP-HF Tri-chrome conversion coating. Meets MIL-DTL-5541F, Class 1A and Class 3 (Type II). Applied via immersion or spray.			+
CHEMEON TCP-HF EPA Additive used with TCP-HF and SP to enhance corrosion protection of copper bearing alloys.			+
CHEMEON TCP-HF SP Tri-chrome conversion coating. Meets MIL-DTL-5541F, Class 1A and Class 3 (Type II). Specially formulated for spray applications.			+
Chromicoat™ L25 Liquid chromate conversion coating. MIL-DTL-5541F approval. Meets Boeing BAC 5719.		+	
Permatreat® 640/645 Conventional chrome phosphate. Meets all AAMA specifications.	+		



	Dried-In-Place	Rinsed
NON-CHROME PRETREATMENTS		
Gardobond® EPP Zirconium and titanium based. Will also treat ferrous and zinc-coated substrates. Can meet all AAMA specifications.		+
Gardobond X 4650 Zirconium based. Lower rate of attack than Okemcoat 4500. Can meet all AAMA specifications.	+	
Gardobond X 4707 Zirconium/titanium based. Limited TACOM approval for MIL-DTL-5541. Can meet AAMA specifications.		+
Okemcoat® 4500 Zirconium-based. Higher etch rate — good for oxidized metal. Can meet all AAMA specifications.	+	
Oxsilan® 9802 Phosphorus-free, silane based coating that's applied at ambient temperature. Will also treat ferrous and zinc-coated substrates.		+

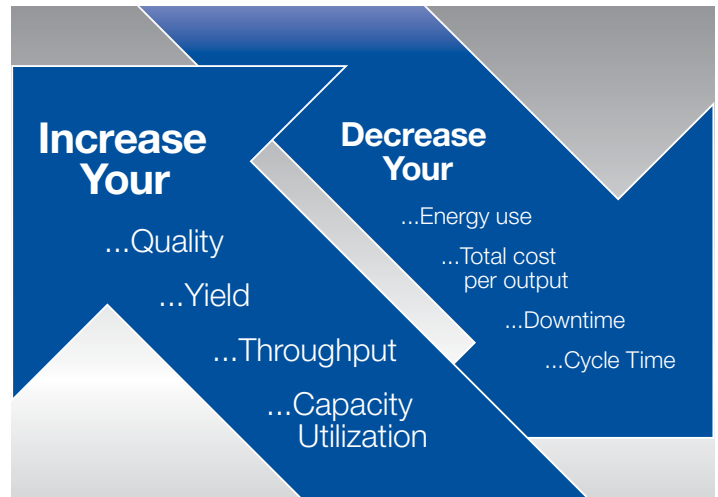
	Powder	Liquid
ANODIZING ADDITIVES		
Gardobond Additive H 7525 Additive for anodizing at higher temperatures, 7XXX series alloys and high current densities.	+	
Gardobond Additive H 7525/2 Anti-fume, mist control.		+
Gardobond Additive H 7526 Additive for anodizing at higher temperatures, 7XXX series alloys and high current densities.		+



	Powder	Liquid
COLORS AND SEALS		
Gardobond Additive H 7533 Surface tension reducer for hot sealing.		+
Gardo Color 7720 Electroless, Iron Oxalate based, gold coloring additive. Produces a light Silver to light Brass tone.	+	
Gardo Color 7721 Dispersant and anti-oxidant for Tin Sulfate 2-step coloring.		+
Gardo Color 7722 Stabilizer for Tin Sulfate/Sulfuric based 2-step coloring.		+
Gardo Color 7726 Tin additive with stabilizer. Iron containing. Used to achieve Bronze tones.		+
Gardo Color 7727 Tin additive with stabilizer. Iron-free. Used to achieve Bronze tones.		+
Gardo Seal 1947 Nickel based, cold seal. Specially designed for high production/high contamination plants.		+
Gardo Seal 1958 High performance hot seal additive to control blooming.		+
Gardo Seal 1999 Mid-temperature seal. Free of heavy metals.		+



Cut it. Clean it. Coat it. Control it. Conserve it.® with us!



Meet your needs with our 6 Point Total Value Proposition

- Point 1.** Dedicated, Global Specialists Locally Available
- Point 2.** Focused, Passionate, and Accountable Expert Support
- Point 3.** Integrated Portfolio of Innovative Products
- Point 4.** High Quality Standards
- Point 5.** Fast and Accurate Labs
- Point 6.** Comprehensive Collaboration for Efficient Process Performance

The Surface Treatment global business unit of the Coatings division of BASF, operating under the Chemetall brand, is a leading supplier of applied surface treatments and services for metal, plastic, and glass substrates in a vast range of industries and end markets. Chemetall Surface Treatment products are used for a variety of applications. As an integrated part of the business, we offer a full range of services, including process control and on-site support at customers' facilities with local representation worldwide. Beyond local technical expertise, systems are designed to meet the final requirements of the treated products.

Chemetall is proud to serve North America from the following locations

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