# Aluminum Intensive Vehicles

Chemetall provides a complete portfolio of products and services to support the manufacture of aluminum intensive vehicles. Environmentally sound solutions such as chromefree, phosphorus-free, and NPE surfactant-free products, as well as a full line of high performance passivation technology are available. Chemetall's superior cleaners and conversion coatings deliver outstanding cleaning, surface finishing uniformity, and long-lasting corrosion protection.



	Spray	Immersion	Casting	Extrusion	Sheet	Etching	Low Etch
ALKALINE CLEANERS							
<b>Gardoclean® S 5160</b> A strong alkaline silicate and borate-free liquid cleaner.	•				•	•	
<b>Gardoclean S 5201</b> A mild alkaline cleaner specifically formulated for use on continuous strip coil lines. Borate and silicate-free.	•				•		
<b>Gardoclean T 5316</b> Non-silicated immersion cleaner for all aluminum alloys.		•	•			•	
<b>Gardoclean S 5339</b> This cleaner is for extruded, wrought, and cast alloys. Minimal surface attack. NPE surfactant-free and silicate-free.	•		•	•			
Inpro-Clean 3800 Silicated cleaner, designed for removing buffing compounds. Phosphorus-free.		0	•				
Kleen 4010 A strongly alkaline cleaner specifically formulated for use on continuous strip coil lines.	•	•					0
Kleen 4060 A strongly alkaline cleaner specifically formulated for use on continuous strip coil lines. Phosphorous-free.	•	•					•
<b>Low Heat Cleaner 3</b> Heavy-duty, etching cleaner. NPE surfactant-free.	C	•				•	
<b>STC</b> Low foaming, premium quality detergent for the most demanding aluminum cleaning jobs.	•	•	•				•

**BASF** We create chemistry

Chemetall expect more •



	Coil	Batch	High Etch	Moderate Etch
ACID CLEANERS				
Gardacid <sup>®</sup> P 4307 Highly concentrated acid, used to pickle aluminum. NPE surfactant-free.		0	•	
<b>Gardacid P 4462/1</b> Etching acidic cleaner for spray applications. Sulfuric-based. NPE surfactant-free and phosphorus-free.		0	0	
Kleen 4551 A strongly acidic cleaner, specifically formulated for use on continuous strip coil lines.	0			•
Kleen 4590 A strongly acidic cleaner, specifically formulated for use on continuous strip coil lines. Phosphorus-free.	0			0
<b>TecnoClean®</b> Specifically formulated to clean aluminum and its alloys for immersion applications. NPE surfactant-free.		0		0

### DEOXIDIZERS

**Deoxidizer LNC** Premium, iron-based liquid deoxidizer.

### **Deoxidizer 126**

Premium iron-free product. Add to nitric, sulfuric and/or hydrofluoric acids.

### Gardoclean S 5149

Sulfuric-based product. Add hydrofluoric acids.

### Gardoclean S 5240/2

Sulfuric-based product with additional surfactants. Add hydrofluoric acid.

### **DEOXIDIZER ADDITIVES**

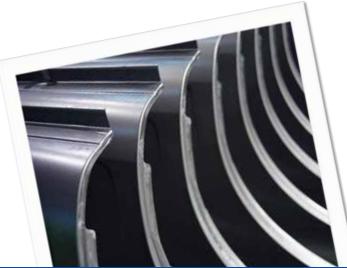
### **Gardobond® Additive H 7269** Fluoride additive for coil.

**Gardobond Additive H 7250** Fluoride additive for coil.

**Gardobond Additive H 7275** Fluoride additive for batch or coil.

### Gardobond Additive H 7401

Nitric-based additive to be used in conjunction with Deoxidizer 126 or LNC.



	Dried-in- place	Rinsed	Organic	Inorganic
PASSIVATIONS				
Arconic 951 Phosphorous based. Used for adhesive bonding and welding. For sheet, extrusions, and castings. Can be sprayed or immersion.		•	0	
<b>Gardobond X 4591</b> Titanium-Zirconium-based. Used for adhesive bonding and welding. A sheet product that can be rolled, sprayed, or immersion.	•	•		0
<b>Gardobond X 4595</b> Molybdenum-Zirconium based. New product developed for adhesive, bonding, and welding. A sheet product that can be rolled, sprayed, or Immersion.	•	0		0
<b>Gardobond X 4707</b> Titanium-Zirconium-based. Used for adhesive bonding and welding. For extrusions and castings. Can be sprayed or immersion.		•		0
<b>Gardoclean 299</b> An alkaline powder cleaner with silicate and borate used by immersion. Used for adhesive bonding. For stamped sheet, extrusions, and castings.		•	0	
<b>Oxsilan<sup>®</sup> MM0705A</b> Silane-based coating. Used for adhesive bonding. A sheet product that can be rolled, sprayed, or immersion.	•		0	



# 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

**Chemetall Canada** 

Brampton, Ontario

Tel: 905-791-1628

Toll-free: 877-311-1471

1 Kenview Blvd.

Suite 110

L6T 5E6

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

### North American

Headquarters 675 Central Avenue New Providence, NJ 07974 Tel: 908-464-6900 Toll-free: 800-526-4473 Fax: 908-464-7914

### Chemetall Mexicana, S.A. de C.V.

Avenida El Tepeyac No. 1420-B Parque Industrial O'Donnell-Aeropuerto El Marqués, Querétaro C.P. 76250, México Querétaro Tel: +52 (442) 227 2000 Monterrey Tel: +52 (81) 8371 2517

#### Chemetall U.S.

1100 Technology Drive Jackson, MI 49201 Tel: 517-787-4846 Toll-free: 877-941-3800 Fax: 517-787-5538 Chemetall U.S.

46716 Lakeview Blvd. Fremont, CA 94538 Tel: 408-387-5340 Fax: 408-809-2883

#### www.ChemetallNA.com

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