

# High Carbon Wire Drawing



Chemetall offers a fully integrated, innovative, and optimized portfolio of products for cold forming. Our wire solutions arise from our comprehensive understanding of the challenges faced by wire producers.

We supply highly efficient and customized processes for dip and in-line wire manufacturing. In addition, as part of our dedication to our customers and to sustainability, we offer advanced and original green options to reduce costs and environmental footprint.

## Increase your productivity

- + Extend die life.
- + Faster start-up.
- + Increase speed.
- + Decrease temperatures.
- + Lower sludge.
- + Reduce energy.

**BASF**  
We create chemistry

**Chemetall**  
expect more+

# High Carbon Wire Drawing

Discover our high-performance products and processes for dip and strand line processing for high carbon wire. The portfolio includes efficient cleaning and phosphate removal products, pickling inhibitors, activators, neutralizing agents, and phosphate-free pretreatment. Many state-of-the-art technologies, with and without nickel, for all types of wire manufacturing — from low-carbon to high-carbon iron and steel wire — are available. Energy-saving low temperature processes, high-performance zinc/calcium processes, and sludge-free electrolytic applications offer efficient, cost-effective, and environmentally responsible manufacturing, and benefit the downstream value chain.



## Learn about Gardo®, our full line of comprehensive solutions to improve productivity and quality.

### Activators

- ⊕ **Gardolene® V** — Highly effective activating rinse prior to the application of zinc-phosphate.

### Conversion Coatings

- ⊕ **Gardobond® Z** — Includes nickel-free zinc phosphate conversion coatings designed to facilitate cold forming and high-performance drawing.

### Polymer Lubricants

- ⊕ **Gardomer® L** — High performance lubricants to facilitate enhanced lubrication. No heavy metal or mineral oil.

### Salt Carriers

- ⊕ **Gardolube® SC** — Lubricant carriers to facilitate the cold forming of bare and phosphated iron and steel wire, and stainless steel.

### Reactive Soaps

- ⊕ **Gardolube® L** — A reactive soap used over zinc phosphate coatings. A top product for extrusion.



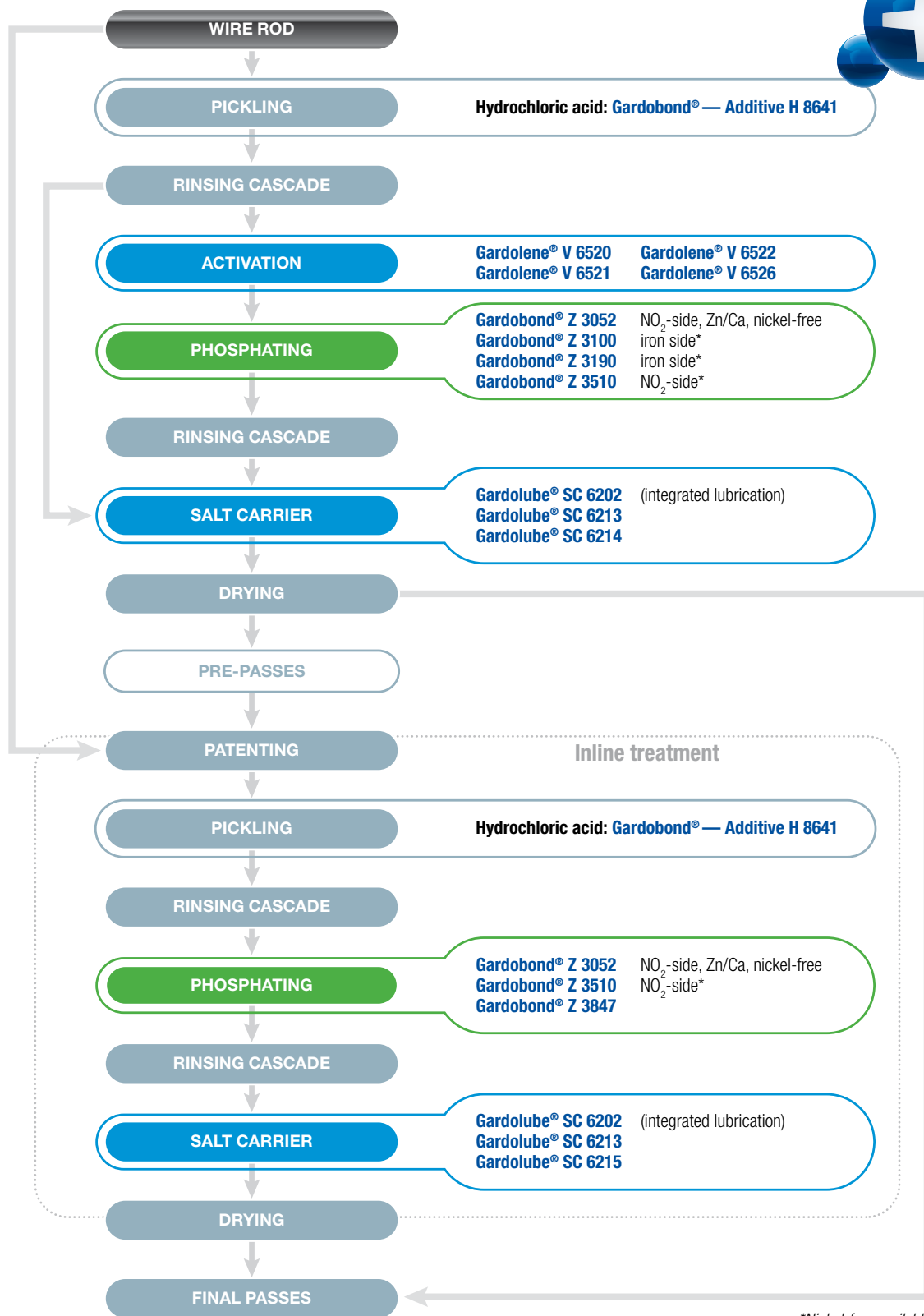
## **Gardo® Hybrid**

Chemetall is proud to offer the first ever cold forming process for steel without phosphates, based on a conversion coating. This technology replaces the zinc-phosphate layer with a phosphate-free metal-organic layer. This innovative conversion layer provides the same excellent properties, but at an overall reduced carbon footprint.

***Experience our commitment to Innovation, Sustainability, and the Environment.***

***Ask us for a demonstration today!***

# Seamless tube manufacturing process and products



\*Nickel-free available



Trust Chemetall's expertise, reliability, proactive strategies, and core competencies in cold forming to increase your process efficiency.



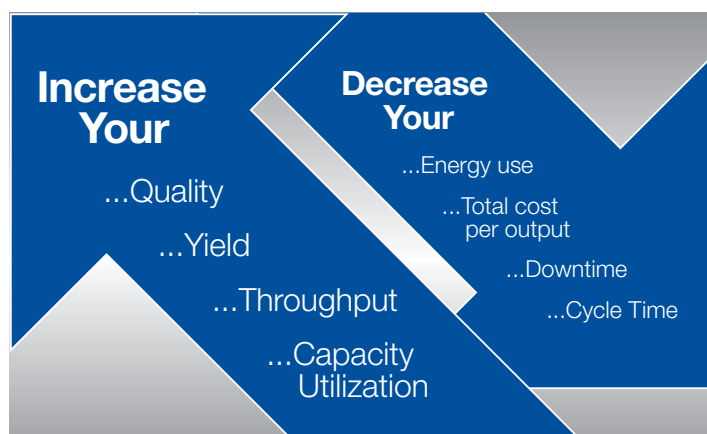
*Our focus is you, our cold forming customer.*



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

We are the Surface Treatment global business unit of the Coatings division of BASF, operating under the Chemetall brand, a leading supplier of applied surface treatments and services for metal, plastic, and glass substrates in a vast range of industries and end markets.

Our global specialists are locally available. Our experts provide focused, passionate, and accountable support. You can expect the highest quality from our integrated portfolio of innovative products. Our labs are fast and accurate. We will collaborate with you to increase the efficiency of your process performance.



**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 Canada Limited**

100 Milverton Drive,  
5th Floor,  
Mississauga, Ontario, Canada  
L5R 4H1  
Tel: 1-905-791-1628  
Toll free: 1-877-311-1471

**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](http://www.ChemetallNA.com) | [surfacetreatment@basf.com](mailto:surfacetreatment@basf.com)

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