

Seamless Tube Manufacturing



Chemetall offers a fully integrated, innovative, and optimized portfolio of products and technologies for the manufacture of seamless tubes. We have a comprehensive understanding of the challenges faced by producers.

We supply highly efficient and customized solutions for all process challenges. 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+

Seamless Tube Manufacturing — From the Blank to the Finished Precision Product

Modern tube manufacturing requires products and solutions for cleaning, pickling, activating, and neutralizing. In the field of conversion coatings, high-performance technologies based on zinc or zinc/calcium are available. These products are also available in nickel and nitrate-free versions. The reactive lubricants have become the global standard for high-quality tubes and surfaces.

Energy-saving low temperature processes 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.

Cleaners/Rust Preventives

- ⊕ **Gardoclean[®] R** — Cleans steel and can include in-process rust protection.
- ⊕ **Gardorol[®]** — Temporary corrosion protection for phosphated or bare metal substrates.

Conversion Coatings

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

Polymer Lubricants

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

Reactive Oils

- ⊕ **Gardolube[®] RS** — Reactive oils ensure a very bright, smooth, and shiny surface for your precision tubes.

Reactive Soaps

- ⊕ **Gardolube[®] L** — Reactive soaps used over zinc phosphate coatings.



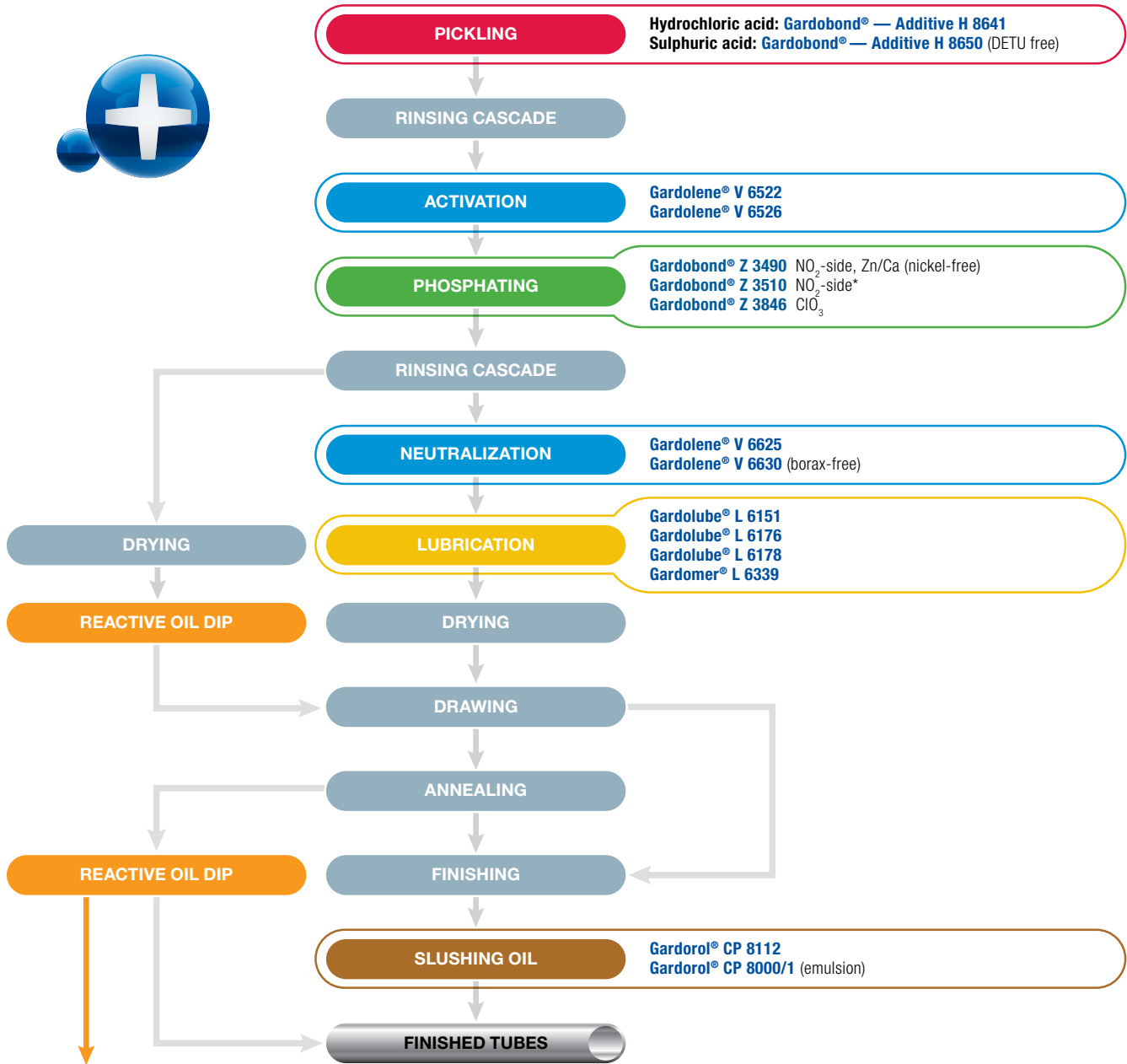
Gardo[®] Hybrid

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

Please see our
 Reactive Oils for
 Precision Tube
 Manufacturers
 line card.



Trust Chemetall's expertise, reliability, proactive strategies, and core competencies in cold forming to increase your process efficiency. Invite us to assist in simplifying your processes and reducing your process steps.



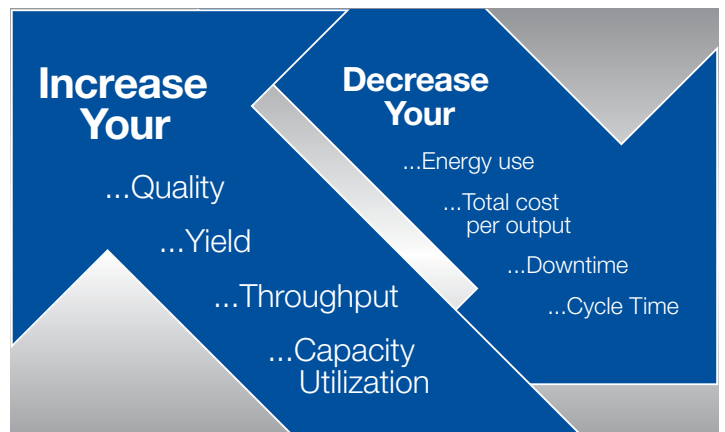
Our focus is you, our cold forming customer.



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.



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