

BONDERITE®



Next Generation Metal Pretreatment

Innovative and Sustainable Pretreatment Coatings for Lightweight Constructions.

As a world-leading supplier of surface treatment technologies and services, Henkel provides a comprehensive range of proven innovative solutions for the automotive and component industry.

Henkel's BONDERITE Metal Pretreatment solutions enable vehicle lightweighting by processing up to 100 % aluminum. These surface coatings lead to an improved corrosion protection, bring ecological, economical and performance benefits, and can easily be integrated into existing production lines without cost-intensive modifications.



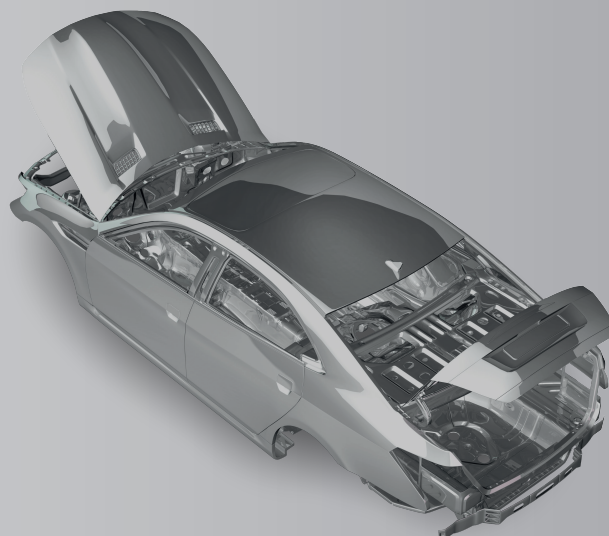
BONDERITE®

The industry challenge

Manufacturers and suppliers in the automotive industry are increasing focus on process efficiency, lightweighting and sustainability. To build lightweight body-in-white and automotive components, engineers decide for the use of mixed-metals with an increasing amount of aluminum substrates. Traditional zinc-phosphate processes pose limitations and increase sludge generation – especially when automotive bodies contain high percentages of aluminum.

Our solutions

Henkel's BONDERITE Next Generation Metal Pretreatment is the fast, sustainable and efficient alternative to traditional zinc phosphatings. It forms a cohesive, high-density coating on any metal surfaces. This thin protective layer contains no regulated heavy metals, optimizes running process steps and costs and leads to superior corrosion resistance, while minimizing environmental impact and reducing cost-intensive process modifications.



BONDERITE Next Generation Metal Pretreatment Solutions

Technology	Base	Aluminum %	Advantages	Temperature	Adhesion / Corrosion
Bridge Technology	Zinc / Zirconium	Up to 85 %*	Less Sludge and/or Nickel Free	43 – 49 °C / 110 to 120 °F	Excellent
Thin-Film Technology	Zirconium	0 to 100 %	No Sludge	Ambient	Excellent



Lightweighting

- > Tailored to automotive bodies and components with high aluminum content
- > Designed for the processing of mixed metal structures up to 100 % aluminum



Sustainability

- > No regulated heavy metals
- > Up to a 90 % decrease in sludge generation
- > Reduced fluoride additive level
- > Ambient temperature options
- > Up to 30 % energy reduction
- > Up to 20 % water savings



Cost-Efficiency

- > Easy integration into existing production lines, with minimal modifications
- > Reduction of operating costs
- > Reduction in new systems process steps; saving time and money
- > Less maintenance

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* The technology can even process 100 % aluminum cars in a mix of multi metal cars.

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