

# BONDERITE®



**Chrome-VI free**

Conform to the  
EU directives 2002/95/EG,  
RoHS, WEEE and REACH

## Eco-friendly conversion coatings.

**BONDERITE® Chrome-VI free technologies.**

Conform to the EU directives for conversion coating processes for light metal substrates by offering health and safety and process costs advantages.

**BONDERITE® – Upgrades your standards.**

**Henkel**

## Reduced environmental impact – improved health, safety and efficiency.

An upcoming EU-guideline, no longer allowing the use of Chrome-VI for corrosion protection of metals (except for safety-critical applications like aerospace) requires new alternatives to replace Chrome-VI coated components while maintaining the properties.

The alternative pretreatments need to achieve at least the properties of Chrome-VI coated components. With BONDERITE Chrome-III and non-chrome conversion coatings, Henkel offers an extended range of reliable and efficient solutions to match these requirements.

### Chrome-VI free conversion coatings

BONDERITE conversion coatings produce a homogeneous conversion layer with excellent corrosion resistance properties and paint adhesion characteristics.

By avoiding Chrome-VI decontamination as well as the use of less water and energy, the total process costs get lower and

the process itself more eco-friendly. Compared to Chrome-VI processes health impact is reduced.

Currently Chrome-III and non-chrome pretreatment technologies are already conform to REACH (obligatory September 2017).

### Henkel services

Henkel assists customers closely during the conversion from a Chrome-VI process to the sustainable alternative, including recommendations on the chemical cleaning of the production line. The process can be monitored using special dosing and control equipment like BONDERITE Lineguard Supervisor.

### Chrome-III based technologies

- Multi-metal pretreatment
- GSB and QUALANOD approvals
- No toxic labelling
- Excellent corrosion protection properties on bare metal
- Appropriate electric resistance

### Non-chrome conversion coatings

#### Inorganic coatings:

- Suitable for aluminium parts outside
- GSB and QUALANOD approvals
- Excellent corrosion protection
- Improving bonding characteristics in combination with adhesives
- Acid etching and conversion coating in a combined process step

#### With addition of organics:

- For light metals, aluminium parts and its alloys
- GSB and QUALANOD approvals
- Post passivation of phosphate layers
- Pretreatment for subsequent painting processes
- Suitable for vertical plants without final rinsing
- Excellent corrosion resistance and enhanced adhesion for subsequent painting

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