

cleaning and passivation of aluminium

conversion coating zero chrome (VI)

The characteristics of aluminium surfaces can be improved exactly by depositing of a conversion coating. In this process, the non-uniform oxide film of the AL-surface is removed and replaced by a defined thin and resistant conversion layer. The applied layers meet the requirements of the electronic scrap regulations and the EU-end-oflife-vehicle directive.

advantages

- enhanced corrossion protection
- excellent surface for subsequent paint or foil coating
- The application of this extremely thin film inhibits the formation of the natural oxid layer
- 💋 those layers are an excellent basis for the following processes: - welding

 - painting
 - glue - vulcanise

environmentally sustainable method





product features

• cleaning with silicate layer (Gardoclean 299)

layer thickness: corrosion protection: features: 2 – 7 mg/m² storage protection up to 3 months improvement adhesion (glue)

Ii conversion layer (Alodine 2040 / Bonderite M-NT 2040)

environmental relevance: chrome(VI)-free, developed in respect

	of the new european environmental directives
layer thickness:	$2 - 15 \text{ mg/m}^2$
corrosion protection:	storage protection up to 3 months
features:	improvement of weldability and adhesion (glue and lacquers)
temperature:	insensitive
surface resistance:	< 20 µOhm/cm ²
fields of application:	wrought aluminium alloys, cast parts and forged metal parts

8 chrom III (Surtec 650)

environmental relevance: chrome(VI)-free, developed in respect

standard:	of the new european environmental directives e.g. VW TL 13750 V111	
layer thickness:	50-400 nm	
corrosion protection:	up to 720 h salt spray test according to DIN EN ISO 9227 – NSS (depending on the material)	H
color:	slightly iridescent, visible layers	D
temperature: surface resistance:	temperature resistant up to 212° F < 0.8 mOhm/cm²	te fa
fields of application:	wrought aluminium alloys, cast parts and forged metal parts	in

technical data

among others, meets the requirements of:

Porsche

Porsche Standard PTL 7556 (see 1) Porsche Standard PTL 7555 (see 2) "Converse coating of Aluminium semis and aluminium components"

👌 VW

VW Standard TL 824 27 (see **1**) VW Standard TL 824 28 (see **2**) "Washing and passivation of Aluminium components"

Mercedes-Benz

Mercedes-Benz delivery specification DBL 4952 "Delivery specification for Aluminium surfaces in car body" Version 10 (see 1) Version 11 (see 2)

Des Bernard State State

BMW PV 97022 (see 2) procedural requirement "Conversion layers on Aluminium"

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