



## GEOMET®

**GEOMET®** is a **zincaluminium flake coating** embedded in a largely inorganic, chromium-free matrix, which can be applied using various application techniques. The corrosion resistance is dependent on the applied coating thickness and results from a combination of the barrier effect of the film's flake structure, the controlled, anodic protection of the zinc and the passivation of zinc and aluminium. These **thin-film corrosion protection systems** can be combined with topcoats to achieve customised solutions in terms of functional properties, friction behaviour and corrosion resistance of the coating.

# GEOMET®

## PROCESS FLOW

GEOMET® coatings are produced by applying the liquid medium to pre-treated parts with different technologies and by final curing (at 300 °C). In order to be able to apply the thin-film corrosion protection system to bulk material, the components must be loose and non-interlocking and have a weight of around 250 g/part, or alternatively they must be pourable, non-interlocking with a weight of up to 200 g/part. For the use of rack technology, the individual components must weigh at most 50 kg. Components with dimensions of 1,200 x 1,000 x 250 mm and a maximum weight of 25 kg are a prerequisite for the application using spraying or rack technology.

## CHARACTERISTICS

- typical coating weight 24 to 32 g/m<sup>2</sup>
- meets global specifications of the automotive industry
- resistances in salt spray test according to DIN EN ISO 9227 NSS of well over 1,000 h possible
- cyclic corrosion test according to DIN 50017 KK/FKW/KTW: minimum 480 hours
- no risk of hydrogen embrittlement
- metallic silver-grey; in combination with topcoat also in black
- can be coated with commercially available coatings and cathodic dip coatings
- resistant to diesel and petrol, motor oils, organic solvents, coolants and brake fluids; in combination with "Plus" topcoat, improved resistance to acids and bases.



## LOCATIONS:

### **BENSELER**

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##### **Oberflächentechnik**

##### **GmbH & Co. KG**

Zeppelinstraße 28

71706 Markgröningen

GERMANY

Phone: +49 7145 999 0

#### **BENSELER**

##### **Oberflächentechnik NRW**

##### **GmbH & Co. KG**

Wibschla 31

58513 Lüdenscheid

GERMANY

Phone: +49 2351 367 0

E-Mail: [info@benseler.de](mailto:info@benseler.de)

[www.benseler.de](http://www.benseler.de)

