



GEOMET® (321 AND 500)

Description

GEOMET® is a water based coating. It is formed by zinc and aluminium flakes and passivated in an inorganic matrix. It doesn't have chromium (No Cr6 neither Cr3) and fulfills the requirements of EU Directives 2000/53/CE and 2002/95/CE relative al (alternative to DACROMET®).

Silver color.



Corrosion resistance properties

Salt spray test performance between 600 h and 1000 h acc. To ISO 9227

General properties

GEOMET® 321 and 500

- Coating can be used without top-coat.
- No risk of hydrogen embrittlement.
- Excellent behaviour to threaded unions and multitightening (with lubricated top-coat).
- Good behaviour to mechanical wear (D24 1312) and chemical resistance (test VDA 621-412).
- Properties are maintained after exposure to 300°C.
- It admits paint.
- Fair electrical conductivity in many applications.
- Bimetallic compatibility with aluminium.

A wide range of finishes complete the possibilities of GEOMET® 321, they enhance its corrosion resistance properties, an improvement of the coating appearance in general and an adjustment of the coefficient of friction within a certain range.



Uses

GEOMET® 321 y 500 are used to protect fasteners and other metallic parts from corrosion. For example, automotive industry, industrial vehicles, renewable energies, construction, industrial fasteners and tools

THIS TREATMENT IS APPLIED DIRECTLY IN LINE OR IN COMBINATION WITH PREVIOUS AND SUBSEQUENT APPLICATIONS.

GALOL S.A. offers the possibility to reduce logistic costs between the different operations of manufacturing of the part.

Application technology

Dip-spinning

Spray

Standards and specs

Geomet® 321

- DAIMLER (DBL 9440)
- VOLKSWAGEN (TL245)
- VOLVO CARS (VCS 5737,29)
- ALSTOM (DTRF 150213)
- BMW(GS90010)
- CHRYSLER(PS5873-PS9666)

Standars and specs

GEOMET® 500

- DAIMLER (DBL 9440)
- IVECO (18-1101)
- PEUGEOT/CITROEN (B15 3320)
- FIAT (Cap. 9.57513)

GEOMET® 321

Coating weight	Salt spray test (ISO 9227/ ASTM B117)	Cyclic corrosion tests
>24g/m2	>240 h sin OB >720 h sin OR	
>24g/m2 in total	>720 h sin OR	ACT 4 cycles GMW 14872 60 cycles SAE J2334 60 cycles
>36 g/m2	>1000 h sin OR	
Coefficient of friction controlled From 0.06 to 0.18 (ISO 16047) with top-coats from NOF METAL COATINGS GROUP		

GEOMET® 500

Coating weight	Salt spray test (ISO 9227/ASTM B117)	Cyclic corrosion tests
Grade A >24g/ m ²	> 240 h sin OB > 720 h sin OR	25 cycles APGE
Grade B >36g/ m ²	> 240 h sin OB > 1000 h sin OR	6 cycles ACT 50 cycles APGE
Integrated coefficient of friction: 0,15 ± 0,03 (ISO 16047)		

OB= White rust

OR=Red rust

GALOL S.A.

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