GALOL J. A.

E-PLATED, CHEMICAL AND CONVERSION COATINGS



PHOSPHATING

Description

Phosphate provides a temporary corrosion protection. This corrosion resistance can be enchanced with the use of oil. Hence, it is important to mantain proper storage conditions, for example, absence of heat relative humidity, storage under roof and not in the outside.

Phosphate reduces friction in parts that are in sliding contact. It provides a controlled roughness of the surfaces.

Phosphate can be used as an undercoat for zinc flake coatings and organic layers. Corrosion tesistance can be increased with the use of subsequent treatments, not by the phosphate itself. Microcrystalline phosphate is used at GALOL SA



Corrosion resistance properties

Phospate does not provide good corrosion protection in atmospheric environments or in salt spray test acc. To ISO 9227. Nevertheless, corrosion resistance can be enchanced with oil application. For this reason it is used as a temporary protection for parts stored in warehouses or for parts in applications without corrosion resistance requirement (gearboxes, parts in contact with oil, engine bolts etc...)

Application technology





dards and speccs

VW: 13750 Ofl-b100
VW: 13750 Ofl-b110

• FORD: WX 100 S430

GME: 00253-U
 GME: 00253-V
 GME: 00253-W
 GME: 00253-X
 PSA: B15 3100 P2a

Types of phosphate

Туре	Micro-crystalline manganese phosphate (MnPh)	Micro-crystalline zinc phosphate (ZnPh)	
System	Rack	Barrel/Rack	
Coating weight	10 to 30 g/m ²	6 to 16 g/m ²	
Uses	Temporary corrosion protection Friction applications	Temporary corrosion protection Undercoati for zinc flakes coating and organic top-coats	

Protection	Layer thickness µm	Coating weight g/m²	Salt spray test ISO 9227
ZnPh	> 3	6 to 16	6 h
ZnPh + aceite	> 3	6 to 16	24 h
ZnPh + Delta-Seal [®]	> 3 + 8	6 to 16	72 h

Applicable products

- Oil. Oils with temporary corrosion protection and lubrication properties.
- Delta Tone. Zinc flakes coatings acc. To ISO 10683
- Delta Seal. Organic thin layer top-coat.

Uses

Zinc phosphate (ZnPh) provides a coefficient of friction between $\mu_{tot} = 0.15$ and 0,20 acc. to ISO 16047 in metric theaded unions. Oils can be applied in order to reduce coefficient of friction and provided more regular values between $\mu_{tot} = 0.09$ and 0,15 acc to ISO 16047.

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

 ${\sf GALOL}$ S.A. offers the possibility to reduce logistic costs between the different operations of manufacturing of the part .

