



**DELTA-PROTEKT® KL 100**

**Description**

Delta-Protekt ® KL 100 is an anti-corrosion protection system for non metal electrolytic parts. The organic coating, using sheets of zinc and aluminium, provides excellent protection against corrosion. It supports further treatments to offer colour, higher corrosion protection, and chemical resistance and, when applicable, it also supports lubrication.

For fasteners high strength automotive applications construction sector, power sector, renewable energies (wind energy).

It can also be applied to other pieces than fasteners as moulding, fine blanking parts, stamping parts, etc...



**Application technology**

- Dip-spinning
- Spray

**Standards and specs**

- FORD: *WX100 S442*
- GM: *GMW3359*
- RENAULT: *01-71-002/-R*
- VW: *TL 245*
- VDA: *VDA235-104*
- VOLVO: *VCS5737,19*
- Others ...

**Properties Delta-Protekt® KL 100**

- Coating free of hydrogen embrittlement risk
- Maximum corrosion protection in thin layers.
- Its thickness can vary from about 8 microns to 20 microns, as required.
- Relative low curing temperature (240 °C) with less influence on the structure in high-strength steels.
- Resistance to chemicals (solvents, fuels, coolants, etc..).
- Temperature resistance up to 180 °C.
- It complies with environmental requirements of the automobile industry, and the European Directive 2000/53/EC.
- It does not contain hazardous heavy metal such as Cr6 +, Pb, Cd or Hg.

**Properties of corrosion resistance**

Values of 480 h to 1000 h RR in salt spray test acc. To ISO 9227 or ASTM B117 can be obtained depending on the layer thickness applied. Corrosion protection is enhanced with Protekt ® series VH 3, since it is a layer that seals the surface and delays the apparition of corrosion. Layer thickness can be adjusted to comply with metric thread tolerances acc. To ISO 965. See ISO 10683.

Layer thickness	Coat weight	NSS acc. To ISO 9227
6 / 8 µm	26 g/m <sup>2</sup>	480 h
10 / 12 µm	38 g/m <sup>2</sup>	1000 h

**Uses**

- Coating of threaded fasteners according to ISO 898-1 and ISO 898-2 and stainless steel. Non-threaded fasteners, door latches and structural part
- Coating of fasteners > 10.9 parts with tensile strength Rm > 1000 N/mm<sup>2</sup> or hardness > 320 HV, that require absence of risk of hydrogen embrittlement

Pieces with Delta-Protekt



**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.**

**GALOL S.A.**

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