



DELTA-SEAL®

Description

Delta® Seal is a thin layer organic coating that provides good corrosion resistance and color, among other properties. Delta®-Seal is applied over steel parts mainly, with their surface previously cleaned. Delta®-Seal is an organic top-coat. It does not produce hydrogen embrittlement during its coating process. The application field of Delta® Seal is: high strength fasteners acc to ISO 898-1 and ISO 898-2 and stainless steel bolts. Non-threaded fasteners, door latches, structural parts, springs, bolts 10.9 or higher, metallic parts with a tensile strength $R_m > 1000 \text{ N/mm}^2$ or hardness $> 320 \text{ HV}$, which require freedom of risk of hydrogen embrittlement.



Application technology

- Dip-spinning
- Spray

Standards and specs

- 01-71-4002H
- STD 5752,53

Properties of Delta-Seal®

- Colour identification
- Sealing of the surface coated with Delta Protekt and phosphate surfaces for corrosion protection
- It reduces electrical conductivity. Coating not appropriate for ground connections.
- Integrated lubrication of threaded fasteners (Delta®-Seal GZ). Reduction of friction in parts in contact in their application or use.
- It reduces wear caused by metallic parts under friction.
- Chemical resistance to organic solvents (motor oil, anti-coolant agents, brake fluids etc.)
- Temperature resistance up to 120°C
- It allows multiple tightening and untightening operations. Consult for assistance

Uses

- Wind energy, solar energy, construction and automotive industry. Industrial vehicles.
- Heavy-duty equipment and tools.
- It has been certified by Germanischer Lloyd for applications in the wind energy industry, both on-shore and off-shore. Approved by the most important wind mill manufacturers like Vestas, GE or Siemens. It complies with requirements of salt spray test (C5-marine, 1500h) and coefficient of friction requirements (0.09 to 0.14) required by the market

Propiedades de resistencia a la corrosión

Layer thickness	Coating weight	White rust	Red rust
Phosphating+ Delta®-Seal	> 5 µm		72 h
Phosphating+ Delta®-Seal	> 10 µm		120 h
Delta®-Tone + Delta®-Seal/ Delta®-Seal GZ	8 µm + 4 µm	120 h	480 h
Delta®-Tone + Delta®-Seal/ Delta®-Seal GZ	9 µm + 6 µm	120 h	720 h
Delta®-Tone + Delta®-Seal/ Delta®-Seal GZ	9 µm + 9 µm	120 h	960 h
Delta-Protekt® KL100+ Delta®-Seal/Delta®-Seal GZ	8 µm + 4 µm	120 h	720 h
Delta-Protekt® KL100+ Delta®-Seal/Delta®-Seal GZ	10 µm + 6 µm	120 h	960 h

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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