



SURFACE AND CORROSION PROTECTION



Sealed Surface Conversion System
The alternative to stainless steel



NSD TUPH SURFACE TREATEMENT

REDUCES COSTS, LESS WEIGHT, **IMPROVED PROCESS RELIABILITY**

Drive technology for extreme ambient conditions with the wide range of products with which you are familiar for standard geared motors - however with the durability of stainless steel and an excellent price-performance ratio. NORD DRIVESYSTEMS now has an answer for these requirements: Sealed Surface Conversion System



Paint is only applied to the surface and may even cover any porosity. Because paint does not form a permanent bond with the material, it may flake off, even with moderate



Adhesion layer Aluminium surface

Sealing

The process has a base layer, which forms a permanent bond with the surface of the aluminium and ensures a strong basis for the bonding of the surface coating. This combination offers extreme resistance and is 6-7 times harder than untreated aluminium and up to 1,000 times harder than paint.







Sprinkling of the products with hot water at 38° − 45°C



Foaming of the products with cleaning agents as well as 1.56% acid.



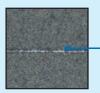
Soaking time of 10 - 30 min. for each cleaning



Spraying with hot water at 38° – 45°C under high pressure. Spraying with cleaning agents with 0.26% concentration.



Spreading of corrosion in the region of a scratch test on conventional paint.



Example of a surface after a scratch test without spreading of corrosion



Gravelometer test for flaking resistance on a painted surface according to ASTM



Gravelometer test for flaking resistance on msd according to ASTM

The complete solution for extreme conditions

- **nsd** Surface-treated housing components
- DIN and standard components made from stainless steel
- Washdown housing (gear unit and motor)
- Stainless steel shafts
- Special shaft sealing rings
- Food Grade Oil

⊓sd for extreme conditions

- Food and beverage industry
- Dairies
- Pharmaceutical industry
- Water and sewage plants
- Carwash systems
- Offshore and coastal areas
- Cleaning with chemicals (washdown, wide pH range)

Available products with **□=□**:









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