SURFACE AND CORROSION PROTECTION

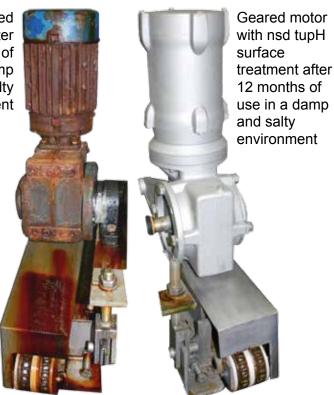
FOR EXTREME AMBIENT CONDITIONS





NO PAINT, NO FLAKING







Sealed Surface Conversion System

- Easy to clean surfaces
- Resistant to acids and alkalis (wide pH range)
- No blistering, even if damaged
- Cannot flake
- Corrosion-resistant prevents contact corrosion
- Alternative to stainless steel
- Complies with FDA Title 21 CFR 175.300
- Free from chromates



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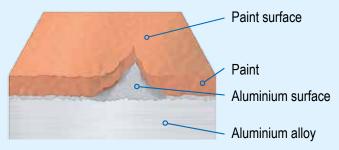
FOR EXTREME AMBIENT CONDITIONS



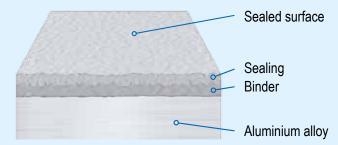
- reduced costs, less weight, better process reliability

NORD DRIVESYSTEMS now has an answer for drive technology for extreme ambient conditions. Available for a wide range of familiar standard geared motors products - but with the resistance of stainless steel and an excellent price-performance ratio: nsd tupH surface treatment.

How the ☐☐☐ Sealed Surface Conversion System works:



Paint is applied to the surface and can even conceal porous surfaces. Because the paint does not form a permanent bond with the material it can flake off, even with little use.



The nsd tupH process uses a binder which forms a permanent bond with the aluminium alloy and creates a perfect basis for bonding with the surface treatment. This combination provides extreme resistance and a harder surface than untreated aluminium.

Extensive tests with \(\begin{align*} \text{Extensive} \text{Extensive} \text{Tests with } \(\begin{align*} \text{Extensive} \text{Extensive}



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



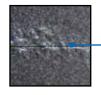
Foaming of the products with cleaning agents as well as 1.56 % acid.



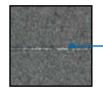
Soaking time of 10 - 30 min. for each cleaning cycle.



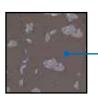
Spraying with hot water at 38 ° - 45 °C under high pressure. Spraying with cleaning agents with 0.26 %



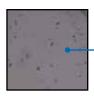
Spreading of corrosion in the region of a scratch test on a conventional painted surface.



Example of an **□□□** surface after a scratch test without spreading of corrosion.



Gravelometer test for flaking resistance on a painted surface according to ASTM D3179.



Gravelometer test for flaking resistance according to ASTM D3179 on nede

The complete solution for extreme conditions necles for extreme requirements

- □ Surface-treated housing component
- DIN and standard components made from stainless steel
- Washdown housing (gear unit and motor)
- Stainless steel shafts
- Special shaft sealing rings
- Food-compatible oil

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

NORD products available with **□□□**:













Motor starter SK 135E

Frequency inverter Smooth motors Helical gear unit SK 135E

Bevel gear unit SK 93x72.1

SMI worm gear unit



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^{*} A comprehensive list of the tested cleaning agents can be requested by e-mail.