



Published on African Petrochemical's Website, 27 August 2018 & Mining Review Journal Zambia's Website, 29 August 2018

NORD DRIVESYSTEMS – Nord Nsd Tuph Anti-Corrosion Treatment for Aluminium Drives



BMG's range of NORD aluminium drives is available with the nsd tupH (Sealed Surface Conversion System) anti-corrosion treatment, which has been developed by NORD DRIVESYSTEMS, for improved process reliability in extreme environmental conditions and for hygienically critical applications.

"NORD's nsd tupH surface and corrosion protection system, which is resistant to acids and alkalis, is a highly efficient anti-corrosion treatment for gear units, smooth motors, frequency inverters and motor starters in washdown-optimised cast aluminium housings," explains Derrick Louw, NORD Product Specialist, Electromechanical Division, BMG.

"BMG's NORD nsd tupH drive units are a robust alternative to painted geared motors or Stainless Steel versions. The nsd tupH catalytic surface treatment process permanently bonds a high hardness layer to the aluminium substrate, to offer the same corrosion-resistance as Stainless Steel. Advantages include extended surface life, a substantially lower mass, improved installation options and cost efficiency."

"NORD's easy-to-clean surface treatment is not a coating like a paint layer, that can detach or flake off. This durable protective layer offers optimum protection against scratching, blistering and the penetration of corrosion, even if the unit is damaged. This surface conversion system is highly resistant to extreme environments and aggressive cleaning chemicals, even under high pressure washdown conditions."

NORD drives with nsd tupH comply with FDA Title 21 CFR 175.300 and for this reason are suitable for food applications. They have been successfully tested according to ASTM D714 (blistering), ASTM D610-08 (corrosion), ASTM D1654-08 according to DIN EN ISO 2409 (scratching), ASTM B117-09 according to DIN EN ISO 9227 (salt spray test) and ASTM D3170 (Gravelometer). In addition, resistance to common cleaning agents, which are used in the food industry, has been confirmed in tests.

All DIN and standard components for BMG's NORD nsd tupH aluminium drive units, including drive shafts, are made from Stainless Steel. Fan-less smooth motors, which run quietly, do not spread germs. They are available as synchronous and asynchronous motors and comply with efficiency classes IE2 and IE3 (asynchronous motors) and IE4 (synchronous motors). Typical applications for NORD drives with nsd tupH surface treatment, include the food and beverage industry, bottling and canning plants, water treatment and sewage plants, as well as offshore and onshore applications. This range is suitable for use in any plant that requires a washdown after production.

The NORD range, which is assembled locally by BMG according to stringent international quality and safety specifications, has earned recognition by the local market for reliability, high efficiency, reduced noise levels, extended service life and minimal maintenance requirements.

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