



THE ALTERNATIVE TO STAINLESS STEEL



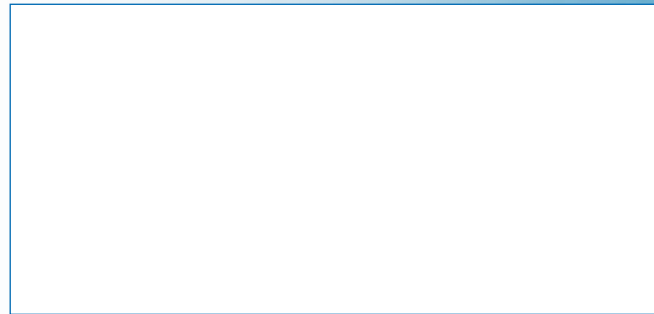
Overview of advantages	Paint	Stainless steel	nsd tupH
No flaking/chipping	--	++	++
Corrosion resistance	+	++	++
Costs	+	--	○
Weight	++	-	++
Available products	+	-	+
Thermal conductivity	+	-	+

++ very advantageous, + advantageous, ○ neutral,
- disadvantageous, -- very disadvantageous

Available NORD products with nsd tupH

NORDBLOC.1® helical gear unit	NORDBLOC.1® 2-stage bevel gear unit
 <small>*up to size 6 or 7 (depending on version)</small>	
UNIVERSAL SI and SMI worm gear unit	Smooth surface motor
	
NORDBLOC.1® parallel shaft gear units	Motor starter NORDAC START SK 135E Frequency inverter NORDAC BASE SK 180E
	

nsdtupH@nord.com



NORD DRIVESYSTEMS® Group

Headquarters and technology center
in Bargeheide, near Hamburg

Innovative drive solutions
for countless applications in more than 100 industries

Mechanical gear products
Parallel shaft, helical in-line, bevel and worm gear units

Electrical products
High-performance motors (IE1, IE3 & IE4)

Electronic products
Centralized and decentralized frequency inverters
and motor starters

7 production locations with cutting edge technology
for all drive components

**Subsidiaries and sales partners
in 98 countries on 5 continents**
provide local inventory, assembly, technical support
and industry-leading customer service

More than 3,600 employees throughout the world
create customized, engineered solutions.
Locate your NORD sales representative or authorized
product distributor: www.nord.com/locator

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NORDBLOC.1 is a trademark of Nord Gear Corporation.

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Members of the NORD DRIVESYSTEMS Group

Intelligent Drivesystems | Worldwide Services

nsd tupH

Sealed Surface Conversion System



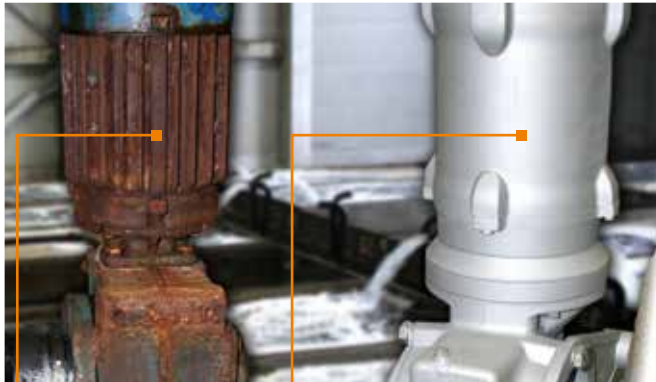
**CORROSION
PROTECTION
FOR EXTREME
CONDITIONS**



S4500 Part. No. 6069003 / 2418

THE SOLUTION FOR EXTREME CONDITIONS

**NO PAINT!
NO FLAKING
OR CHIPPING**



Painted geared motor after 12 months of use

nsd tupH geared motor after 12 months of use in a shellfish processing system in a salty environment

nsd tupH – Ideal for extreme conditions

- Food and beverage industry
- Dairy
- Pharmaceutical industry
- Water and waste treatment
- Car washes
- Marine and coastal areas
- Chemical cleaning (wash-down, large pH range)

NORD DRIVESYSTEMS provides solutions for extreme conditions.

- nsd tupH surface-treated housing components
- Conforms to FDA Title 21 CFR 175.300
- Hardware and accessories in stainless steel
- Self draining, wash-down housing surfaces (gearbox, motor, inverter)
- Stainless steel shafts
- Special shaft sealing rings
- Optionally provided with food grade lubrication (synthetic or mineral)

Aluminium with nsd tupH surface



To simulate realistic environmental conditions, the test sample should not be continuously immersed in chemicals and cleaning agents. Instead, the sample should be subjected to an examination procedure which includes the recommended time and application of the cleaning agent with appropriate rinsing. This cycle can be repeated in rapid succession (several times/day) in order to speed up the testing.

TIP: Expose the test sample to the actual operating conditions of your drives

Please visit our NORD „YouTube“ channel for more information!



Substances tested by NORD DRIVESYSTEMS		
Substance	Alternative name	Conc. (max)*
Acetic acid	Vinegar	30.0%
Alcohol, ethoxylated	Non-ionic tensides	5.0%
Hydrogen peroxide		6.9%
Methane sulfonic acid		5.0%
Carbonic acid	Caprylic acid	3.3%
Peracetic acid	Peroxyacetic acid	4.4%
Phosphoric acid		27.0%
Secondary alcano sulfonates	Wetting agent	5.0%
Sodium hydroxide	Caustic soda, lye, sodium hydroxide	15.0%
Sodium hypochlorite	Bleach, Soda chloride	3.0%

*maximum test concentration

Does your application utilize chemicals not shown on this chart? If so, please contact us via nsdtupH@nord.com or by telephone (back page). Additional chemicals may have already been tested.