Technical Data Sheet

FOOD SPEED

FOOD-GRADE GREASE FOR HIGH-SPEED BEARINGS

Description

FOOD SPEED is a food-grade synthetic lubricating grease based on a complex calcium sulphonate thickener. The particular chemical structure gives the product exceptional mechanical stability and extraordinary resistance to loads even at low temperatures or high rolling speeds. FOOD SPEED is NSF H1 certified (possible accidental contact with food) in the food and pharmaceutical industry.

Use / application

FOOD SPEED finds application on all types of rolling bearings operating in a wide range of working temperatures. FOOD SPEED, thanks to its synthetic base oil having a medium-low viscosity, guarantees excellent lubrication for bearings operating at high speeds and/or subjected to heavy loads. FOOD SPEED has good resistance to water and is able to ensure excellent anti-corrosive protection to mechanical parts. FOOD SPEED is used for the lubrication of bearings of electric motors, centrifuges, fan supports, pumps, ball screws, vibrating parts, and in all those applications where a high-performance grease is required. FOOD SPEED is ideal for machinery, equipment, and plants for the production of food, drugs, beverages, cosmetics, or feed. It is also used in aqueducts, purification plants or in any other application where the lubricant could come into contact with products intended for food consumption.

Properties

- certificated NSF H1
- very good mechanical stability
- high pressure & mechanical load resistance
- oxidation resistance
- very high d/n factor (500-600.000)
- water resistance
- excellent anti-corrosive properties

Technical Data

Classification	DIN 51502		KPHC 2 N-40
Working temperature		°C	-40/+140
Short time admissible temperature peak		°C	+180
Drop point	ISO 2176	°C	> 300
Corrosion protection (Emcor Test 3%NaCl)	DIN 51802	degree	0-0
Four-ball test (welding load)	ASTM D2596	N	6500
Worked penetration	ISO 2137	1/10 mm	265-295
Base oil viscosity at 40°C	ASTM D445	mm²/s	100
Flow Pressure	DIN 51805	mbar	< 1400 (-40°C)
Water resistance	DIN 51807 T1	degree	1-90

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NSF International / Nonfood Compounds Registration Program

October 27, 2020

Nils Spa/AG
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RE: FOOD SPEED
Category Code: H1
NSF Registration No. 162908

NSF has processed the application for Registration of **FOOD SPEED** to the *NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds* (2017), which are available upon request by contacting NonFood@nsf.org . The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling review.

This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.

NSF Registration of this product is current when the NSF Registration Mark and Category Code appear on the NSF-approved product label, and the Registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website (www.nsfwhitebook.org).

NSF Listing of all Registered Nonfood compounds by NSF International is not an endorsement of those compounds, or of any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF website, at www.nsfwhitebook.org . Please note the letter date reflects most recent product review. NSF utilizes annual verification to ensure no changes have been made to a registered product. Changes in formulation or label, without the prior written consent of NSF, will void Registration, and will supersede the on-line listing. Please contact your NSF Account Manager or nonfood@nsf.org if you have any questions or concerns pertaining to this letter.

Sincerely,

Sarah Krol
NSF NonFood Compound Registration Program
Company No: N11242