



## Technical Information NEFF Grease 2

N\_42 04 FML 2017-02-15 Technical Information NEFF Grease 2.docx

Ersteller: Andreas Ries

Datum: 15.02.2017

## Technical Information NEFF Grease 2

### Use

High-temperature grease for the lubrication of pressure- and impact-loaded roller and friction bearings at elevated bearing temperatures. Especially suitable for the lubrication of high-speed wheel bearings in commercial vehicles and private cars. At permanent temperatures above 150 °C intervals for regreasing have to be shortened.

### Description

Natural-coloured, squeeze-stable, adhesive lithium-complex-soap lubricating grease on the basis of thermo- and oxidation stable mineral oil. Special EP additives provide a high pressure absorption capacity and good wear protection. Neff Grease 2 is water resistant and shows good corrosion protection characteristics.

### Classification / Specification

NEFF Grease 2

Lubricating grease KP 2 P-30 according to DIN 51 502

ISO-L-XCEEB 2 in accordance with ISO 6743-9

Mercedes-Benz-sheet 265.1

MAN 284 Li-H 2 high temperature grease

Volvo STD 1277,18 / 1277,2

### Safety and Environment

Lubricants must not enter the sewage system, soil or ground water. Used lubricants and empty containers must be disposed of in compliance with local requirements and environmental standards.

For further information about safety and health, please see our Material Safety Data Sheet.

Characteristics	Test method	Unit	NEFF Grease 2
NLGI class	DIN 51 818		2
Worked penetration	DIN ISO 2137	0,1mm	265-295
Thickener			lithium complex
Drop point	DIN ISO 2176	°C	>260
Temperature range (permanent lubrication)		°C	-30 bis +150 short term+200
Base oil viscosity at 40 °C	DIN 51 562	mm <sup>2</sup> /s	approx. 170
Four-ball test welding load	DIN 51 350-4	N	2600
Behaviour towards water	DIN 51 807/1		1-90
Corrosion protection	DIN 51 802	Korr.grad	0

The technical data represents average values and is subject to normal production and raw material fluctuations. A binding legal validity cannot be construed from this data. The right to data discrepancies as a result of product and process changes or further developments remains reserved and such can occur without prior information. Variations in color may occur and, in general, do not constitute a product defect.

## Technical Information NEFF Food Grease 2

### Multifunctional lubrication grease

Multipurpose grease with MicPol® Technology, particularly suitable for the lubrication of foodstuff machines. Provides outstanding protection against wear, rust and corrosion and extends grease life for problem-free operation in high water wash areas. Allows safely extending service intervals to reduce costly maintenance, lubricant consumption and energy usage. Intended for the general lubrication of machine parts with slow to medium-fast movements and light to heavy loads in the food and beverage and pharmaceutical plants.

NEFF Food Grease 2 is listed by the NSF for the use in applications with incidental food contact.

### Applications:

Formulated for a myriad of heavy duty grease applications in food and beverage processing environments and the industry. Applications include the lubrication of slow to moderate moving bearings, shafts, chains, slide ways and open gears in food processing machines, as well as in industries where contamination with the lubricant is to be prevented at all costs, i.e. the textile industry.

### Advantages:

- universal grease for almost all applications
- contains MicPol® Technology for long lasting lubrication
- excellent anti-corrosion protection
- resistant to water, steam and pollution
- clean and does not stain

### Instructions for use:

For best results, parts should be cleaned or purged of the previous lubricant prior to use.

Property	Result	Method
Composition	Mixture of mineral oils, thickener, additives and MicPol®.	-
Colour	White	-
Density 20°C	0.94 g/cm <sup>3</sup>	-
Lowest application temperature	-20°C	-
Highest application temperature	150°C	-
Manufacturing date	The batch number consists of a 6-digit number. The last 4 numbers represent the MM/YY of the manufacturing.	-
Shelf life*	4 years	-
Base of viscosity 40°C	400 cSt	ASTM D445
Copper corrosion	1b	ASTM D4048
Dn factor	250.000	-

Dropping point	None	DIN 51801
Grease code		DIN 51801
NLGI grade	2-3	ASTM D217
Oxidation resistance	14 kPa	DIN 51808
SKF Emcor distilled water	0-0	DIN 51808
Water resistance	1-90	-
Water washout	0.02	ASTM D4049
NSF registration number	123822	
NSF	H1	
ISO 21469	yes	
Halal	yes	
Kosher	yes	

\* Shelf life of the product in original and unopened packaging. Storage temperatures <0°C need to be avoided to guarantee product quality.

This information is based on our best and present knowledge and intended to provide general notes about the product and intended use. Therefore it shouldn't be construed as guaranteeing properties of the product described or suitability for an application. Any existing industrial property rights must be observed. Quality of our products is guaranteed under our General Conditions of Sale. Typical properties mentioned in this document are based on our production tolerances and do not represent a specification. Variations that do not affect product performance are to be expected during normal manufacturing. Information provided in this document is subject to change without notice in advance.

## Technical Information NEFF Grease 2-3

### Multipurpose heavy duty grease with Teflon®

#### Product description

Exceptionally long lasting, multipurpose heavy duty grease with Teflon®. For the lubrication of almost any mechanical part in industrial machinery, outdoor equipment, vehicles etc., with slow to fast movements and moderately high loads over a wide service temperature range.

Fortified with Teflon®, for increased lubricity and much longer relubrication intervals. High resistance to water and water washout, most chemicals and other contamination. Particularly suitable for long-term lubrication by virtue of its extremely low tendency towards oxidation. Grease can be used in centralized lubrication systems.

#### Application:

For a multitude of general machine lubrication applications over a wide range of environmental conditions, including bearings, sliding surfaces, open gears and transmission, slide ways, joints, cogs, guides, electric motors and fans, guide tracks, axles, crown gears, spindles, shafts, valves and many other mechanical parts.

#### Advantages:

- unsurpassed flexibility for industrial grease applications
- contains Teflon® for increased lubricity
- resists water and contamination like no other
- inhibits rust and corrosion
- stands up against high impact loads and vibrations

#### Instruction for use:

Before use, thoroughly clean parts and remove or wash off old grease.

#### Safety regulations:

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

See „Material Safety Data Sheet“.

#### Packaging:

See our current article list.

#### Transport regulations:

not regulated

## Technical data:

Basic components	mixture of mineral and synthetic oil, lithiumcomplex thickener, Teflon®* and additives
Temperature range	-25°C up to 145°C
Colour	light brown
Odeur	oily
N.L.G.I. ASTM D217	2-3
Penetration worked (60 strokes) ASTM D217	265
Penetration worked (100.000 strokes) ASTM D217	280
Roll stability ASTM D1831 / DIN 51804	3%
Dropping point ASTM D2265 / DIN 51801	> 280°C
Density @20°C ASTM D1475	0.92 g/ml
Base oil viscosity @40°C ASTM D445	185 cSt
Viscosity index ASTM D2270	78
SKF Emcor distilled water DIN 51802	0
Copper corrosion ASTM D4048 / DIN 51811	0
Water washout ASTM D1264	2%
Water resistance DIN 51807	1
Oxidation resistance DIN 51808	14 kPa
Four-ball weld load ASTM D-2596	400 kg
DN-factor	680.000
Shelf life	4 years**

\*\* Usable life of the product when stored at room temperature in the original and unopened packaging.

NEFF Gewindetriebe GmbH  
 Karl-Benz-Str. 24  
 71093 Weil im Schönbuch  
 Germany  
 phone: +49 (0) 7157 538900  
 fax: +49 (0) 7157 5389025  
 mail: info@neff-gt.de  
 www.neff-gewindetriebe.de

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

## Technical Information NEFF LUBE 320

### Use:

High pressure industrial gear oils EP (EP = Extreme Pressure) with very good pressure absorption capacity, even under high intermittent and highly variable loads. Optimum running times when used as operating oil for gearboxes of all types. Always used when thermal or mechanical loads in particular require a high-performance gear oil, e.g. in mining, steel industry, etc.  
For worm gears, planetary gears, spur and helical bevel gearboxes.

### Description:

NEFF LUBE 320 is a zinc-free gear oil, type CLP, and offers, in addition to a very high wear protection and micropitting resistance, also a high level of protection against pitting and pitting formation. Furthermore, the very good aging stability and the high thermal load capacity as well as the good corrosion protection and demulsifying properties are of particular importance. The product is neutral to the usual sealing materials and is compatible with non-ferrous and bearing metals.

### Labeling / Qualification:

Lubricating oils CLP according to DIN 51 517, part 3  
ISO-L-CKC according to ISO 6743-6 and ISO 12925-1  
Flender (ISO VG 150 - 680)

### Safety and environment:

Lubricants are not allowed to enter sewage systems, soil or ground water. Used lubricants and empty containers must be disposed of in compliance with local requirements and environmental standards. Please see the current safety data sheet for further health and safety informations.

Characteristics	Test method	Unit	NEFF LUBE 320
<b>Viscosity class</b>	DIN ISO 3448	ISO VG	320
<b>Density at 15°</b>	DIN 51757	Kg/m <sup>3</sup>	900
<b>Viscosity index</b>	DIN ISO 2909	VI	97
<b>Kin. viscosity bei 40 °C</b>	DIN 51 562	mm <sup>2</sup> /s	170
<b>Kin. viscosity bei 100 °C</b>	DIN 51 562	mm <sup>2</sup> /s	15,9
<b>Flash point COC</b>	DIN ISO 2592	C°	>220
<b>Pourpoint</b>	DIN ISO 3016	C°	<-12
<b>FZG-test A/8,3/90</b>	DIN ISO 14635-1	SKS	>12
<b>FZG-test A/16,6/90</b>	DIN ISO 14635-1	SKS	>12
<b>Gray stain resistance Step test: GFT high</b>	FVA Nr. 54/7	SKS	>10
<b>Corrosion protection steel</b>	DIN ISO 7210	Degree of corrosion	pass
<b>Corrosion protection copper</b>	DIN EN ISO 2160	Degree of corrosion	1

The technical data represents average values and is subject to normal production and raw material fluctuations. A binding legal validity cannot be construed from this data.

## Technical Information

### NEFF Grease 000

#### Use:

Liquid grease for use in central lubricating systems in commercial vehicles (please follow operating instructions!). Another field of application is in outside working units with long pipelines.

#### Description:

Light-green coloured, lithium-saponified lubricating grease on the basis of synthetic base oils with good oxidation stability. NEFF Grease 000 EP is characterized by high pressure absorbing capacity, good water resistance and good corrosion protection.

#### Designation / Qualification:

Lubricating grease GP 00/000 K-50 according to DIN 51 502  
ISO-L-XECEB 00-000 acc. to ISO 6743-9

Chemical and physical data	Test method	NEFF Grease 000
NLGI-class	DIN 51 818	00/000
Worked penetration 0,1 mm	DIN ISO 2137	400 - 460
Thickener		Li-12-hydroxystearate
Drop point °C	DIN ISO 2176	> 160
Temperature application range (permanent lubrication) °C		- 50 to + 120
Base oil viscosity at 40 °C mm <sup>2</sup> /s	DIN 51 562	ca. 45
Behaviour in relation to water	DIN 51 807/1	1 – 90
Corrosion protection Degree of corrosion	DIN 51 802	0

The information contained herein is correct to the best of our knowledge. Technical data are average values and subject to normal product variation.