

STABURAGS® NBU 30 PTM

Lubricating and assembly grease



Description:

STABURAGS NBU 30 PTM is an assembly grease containing a solid lubricant. It is resistant to water and protects against tribo-corrosion (fretting corrosion). It has proven effective in outdoor applications subject to high humidity.

Application:

STABURAGS NBU 30 PTM is suitable as an assembly grease for applications incorporating sliding clearance fits. Applications include hot and cold water valves and taps, slideways (especially in filling machines), valve spindles and cylinder guides. The product can also be used as a sealing grease. In addition, it is suitable for the lubrication of slideways, bolts, spindles and screws, e.g. in railway bogie assemblies.

STABURAGS NBU 30 PTM is especially suitable for external brake components of rail vehicles, such as bolts and rods.

STABURAGS NBU 30 PTM facilitates assembly and disassembly of ABS sensors in vehicles.

Application notes:

Use the aerosol spray version of STABURAGS NBU 30 PTM for relubrication of railway brake parts where no grease nipple is incorporated. For optimum penetration into fine clearances we recommend spraying for at least 8 seconds. This will increase efficiency of brake rods in rail vehicles thus ensuring the longest maintenance intervals.

When used for assembly and lubricating purposes we recommend the lubricant be lightly applied to the component surfaces via a lint free cloth, by hand, or by brush.

Minimum shelf life:

The minimum shelf life is approximately 60 months if the product is stored in its original sealed container in a dry place. The minimum shelf life for the product in aerosol canisters is approximately 36 months.

Pack sizes:

25 g PE tubes
1.2 kg can
30 kg bucket
250 ml aerosol canister with extension tube

STABURAGS NBU 30 PTM

- Assembly grease protecting against tribo-corrosion
- Good corrosion protection
- Excellent resistance to water even under outdoor conditions
- Approved by the company Knorr Bremse, N 12006-1.23

Product data:

Base	mineral oil / barium complex, solid lubricant
Colour	light grey
Service temperature range*, °C, approx.	- 10 to 160
Density, at 20 °C, g/cm ³ , approx.	1.10
Drop point, DIN ISO 2176, °C	> 220
Worked penetration, DIN ISO 2137, at 25 °C; 0.1 mm	245 to 275
Base oil viscosity, DIN 51 561, pt. 1 at 40 °C, mm ² /s, approx. at 100 °C, mm ² /s, approx.	500 31
Apparent dynamic viscosity, Klüber viscosity grade**	S

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechanical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Klüber viscosity grades: EL = extra light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra heavy lubricating grease

STABURAGS® NBU 30 PTM

Safety Data Sheet

1.1 Product name: STABURAGS NBU 30 PTM			
Code-No.: 017 069		08.03.2000	
1.2 Klüber Lubrication München KG		Emergency telephone no.:	
Geisenhausenerstraße 7		++49 - 89 7876 - 0	
D-81379 München			
Tel. ++49 - 89 78 76 - 0 telephone exchange			
Fax: ++49 - 89 78 76 - 333			
2. Composition / information on ingredients			
Chemical characterisation (preparation): Mineral oil, barium complex soap, solid lubricants			
Hazardous ingredients			
Components	Value	Symbols	R-phrases
Barium soap	~ 30%	Xn	22
3. Hazards identification			
Xn – Harmful. R phrases: 22. Harmful if swallowed. No further particular hazards known.			
4. First aid measures			
After inhalation: Not applicable			
After contact with skin: Wash off with mild cleaners and plenty of water			
After contact with eyes: Rinse with plenty of water			
After ingestion: Do not induce vomiting. Obtain medical attention			
Advice to doctor: Treat symptomatically			
5. Fire-fighting measures			
Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO ₂)			
Unsuitable extinguishing media: High volume water jet			
Special Hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons			
Special protective equipment for firefighters: Standard procedure for chemical fires			
Additional information: Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes			
6. Accidental release measures			
Personal precautions: Not required			
Environmental precautions: Do not flush into surface water or sanitary sewer system			
Methods for cleaning up / taking up: Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations			
Additional information: None			
7. Handling and storage			
Advice on safe handling: No special handling advice required			
Advice on protection against fire and explosion: No special precautions required			
Requirements on storage rooms and vessels: No special storage conditions required			
Incompatible materials: Incompatible with oxidizing agents. Do not store together with food			
Further information on storage conditions: Store at room temperature in the original container			
8. Exposure controls / personal protection			
Additional advice on system design: Not applicable			
Ingredients and specific control parameters: None			
Respiratory protection: No special protective equipment required			
Hand protection: No special protective equipment required			
Eye protection: No special protective equipment required			
Body protection: No special protective equipment required			
Other protection measures: No special protective equipment required			
General protection and hygiene measures: Avoid prolonged and/or repeated contact with skin. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream			

9. Physical and chemical properties	
Form	paste
Colour	light grey
Odour	characteristic
Drop point	> 220 °C, DIN ISO 2176
Flash point	> 300 °C (base oil)
Flammability	not applicable
Ignition temperature	not applicable
Autoflammability	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure-first	not applicable
Density	approx. 1.1 g/cm ³ , 20 °C
Water solubility	insoluble
pH value	not applicable
Kinematic viscosity	not applicable
Further information	none
10. Stability and reactivity	
Conditions to avoid: None	
Materials to avoid: Strong oxidizing agents	
Hazardous decomposition products: None under normal use	
Additional information: None	
11. Toxicological information	
The toxicological data has been taken from products of similar composition	
Acute toxicity: LD ₅₀ /oral/rat = > 2 g/kg (literature data)	
Chronic toxicity: None	
Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis	
12. Ecological information	
Information on elimination (persistence and degradability): Product is insoluble in water. May be separated out mechanically in purification plants	
Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use	
Ecotoxic effects: Aquatic toxicity is unlikely due to low solubility	
Additional information: Should not be released into the environment	
13. Advice on Disposal	
Disposal: Can be incinerated when in compliance with local, state and federal regulations	
Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities	
14. Transport information	
GGVS / GGVE:	not applicable
ADN / ADN:	not applicable
IMDG-Code:	not applicable
ICAO / IATA-DGR:	not applicable
Further information: Not classified as dangerous in the meaning of transport regulations	
15. Regulatory information	
Labelling according to EU-guidelines: The product is classified and labelled in accordance with EC-directives/German regulations on dangerous substances	
Hazard(s): Xn – Harmful	
Hazardous component(s) to be indicated on label: Barium soap	
R phrases: 22. Harmful if swallowed.	
S phrases: 28. After contact with skin, wash immediately with plenty water and mild cleaners	
National regulations: Labelling according to the Swiss regulations: No toxicological class, BAGT-no. 83040	
16. Other information	
Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49 - 89 7876 - 564	

The data in this product information is based on our general experience and knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



Klüber Lubrication München KG, a member of the Freudenberg group