

Klüberoil Tex 1-22 N, -32 N, -46 N

Biodegradable needle and sinker oils providing good wear protection



Description

Klüberoil Tex 1-...N oils are based on our well-proven Klüberoil Tex 1 oils. We have improved the additives in order to meet the increased requirements originating in higher knitting speeds and temperatures.

Owing to the improved additives, our new Klüberoil Tex 1-...N oils provide better wear protection than the standard Klüberoil Tex 1 oils. These new oils are easily scourable with modern, environmentally sound washing liquors. They provide excellent corrosion protection and are biodegradable in acc. with OECD guidelines 301c.

Klüberoil Tex 1-...N oils are light yellow in colour and are compatible with elasthan fibers.

Application

Klüberoil Tex 1-...N oils can be used on needles, sinkers, needle cams, needle cylinders, dials and sinker rings.

They keep needle tracks clean, clearly extend the service life of needle and sinkers, and reduce operating temperatures.

Klüberoil Tex 1-...N oils are available in three viscosities: ISO VG 22, 32 and 46. They are suitable for all applications on hosiery, circular and flat-bed knitting machines.

Please observe the machine manufacturer's viscosity recommendations.

Application notes

Klüberoil Tex 1-...N oils can be precisely metered by means of conventional oil feeders.

Before changing over to Klüberoil Tex 1-...N needle and sinker oils, please make sure that the oil feeders are drained and the oil containers are thoroughly cleaned. Different types of needle oils should never be mixed. We recommend SOLUTIN TEX M, our special cleaning agent, to clean your machines.

We also recommend to monitor the lubricant quantity and to readjust it, if required.

Minimum shelf life

The minimum shelf life is approx. 12 months if the product is stored in the closed original container in a dry place.

Owing to viscosity changes at low temperatures, the oil should be slightly heated before application in order to ensure trouble-free machine operation. Please observe the pertinent information on the oil containers.

Packs

20 l canister
200 l drum

Note:

Biodegradable products should be handled with the same care as conventional oils. Avoiding contamination of any kind helps to protect the environment.

Klüberoil Tex 1-... N-oils

- good scourability with conventional washing liquors
- biodegradable in acc. with OECD 301 c
- improved wear protection
- "totally corrosion inhibitive" based on DIN ISO 11659-1
- noise and vibration damping
- compatible with elasthan fibres
- suitable for oil circulation systems in hosiery knitting machines

Product data

Klüberoil	Tex 1-22 N	Tex 1-32 N	Tex 1-46 N
Base oil	mineral oil	mineral oil	mineral oil
Colour	yellowish/clear	yellowish/clear	yellowish/clear
Kinematic viscosity, DIN 51 562/1, approx. (mm ² /s) at 40°C / at 100°C	22/4.3	32/5.5	46/6.8
Pour point	< 0°C	< 0°C	< 0°C
Emulsibility in conventional washing liquor (1:5)	stable for approx. 3 days	stable for approx. 3 days	stable for approx. 3 days
Steel corrosion 24 h/60°C, DIN 51 585	0 – A	0 – A	0 – A
Corrosion inhibition on steel (needle test), based on DIN ISO 11659-1	5	5	5
Oscillation-friction test (b/400 N/70°C/1 h)			
Friction coefficient m	< 0.1	< 0.1	< 0.1
Wear scar Wk (mm)	< 0.6	< 0.6	< 0.6
Wear depth R _z (µm)	< 0.6	< 0.6	< 0.6

This product information leaflet should provide the reader with information for initial product selection. It constitutes neither an assurance of the product properties nor does it release the user from the obligation of performing preliminary tests with the selected lubricant. Klüber will make samples available for test purposes upon request.

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Safety Data Sheet

<p>1.1 Product name: Klüberoil Tex a) 1-22 N b) 1-32 N c) 1-46 N Code-No.: a) 035 027 b) 035 028 c) 035 029 4.5.1999</p>	<p>9. Physical and chemical properties</p> <p>Form: liquid Colour: yellow Odour: characteristic Pour point: ~ 0 °C, DIN ISO 3016 Flash point: a) + c) > 150 °C; b) > 160 °C, DIN ISO 2592</p> <p>Flammability: not applicable °C Ignition temperature: not applicable °C Autoflammability: not applicable Lower explosion limit: not applicable Upper explosion limit: not applicable Vapour pressure-first: not applicable Density: approx. 0.86 g/cm³, 20 °C, DIN 51 757</p> <p>Water solubility: emulsifiable, g/l pH value: not applicable Kinematic viscosity: a) approx. 22 mm²/s, 40 °C b) approx. 32 mm²/s, 40 °C c) approx. 46 mm²/s, 40 °C DIN 51 562</p> <p>Further information: None</p>
<p>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</p>	<p>10. Stability and reactivity</p> <p>Conditions to avoid: Do not heat above flash point Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use Additional information: None</p>
<p>2. Composition / information on ingredients Chemical characterization (preparation): Mineral oil, emulsifier Additional information: No hazardous ingredients</p>	<p>11. Toxicological information</p> <p>The toxicological data has been taken from products of similar composition Acute toxicity: LD₅₀/oral/rat = > 2 g/kg (literature data) Chronic toxicity: None Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis</p>
<p>3. Hazards identification No particular hazards known</p>	<p>12. Ecological information</p> <p>Information on elimination (persistence and degradability): a) Rapidly biodegradable (> 70%). b + c) Biological degradability > 50%. Test method: OECD 301 c Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use Ecotoxic effects: The product has not been tested Additional information: Do not discharge product unmonitored into the environment</p>
<p>4. First aid measures After inhalation: Not applicable After contact with skin: Wash off with soap 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. If swallowed or in the event of vomiting, risk of product entering the lungs</p>	<p>13. Advice on Disposal</p> <p>Disposal: Dispose of in accordance with our local, state and federal regulations as used oil for reconditioning Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities</p>
<p>5. Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO₂) 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</p>	<p>14. Transport information</p> <p>GGVS / GGVE: not applicable ADN / ADNR: not applicable IMDG-Code: not applicable ICAO / IATA-DGR: not applicable Further information: Not classified as dangerous in the meaning of transport regulations</p>
<p>6. Accidental release measures Personal precautions: Risk of slipping due to leakage/spillage of product Environmental precautions: Do not flush into surface water or sanitary sewer system Methods for cleaning up / taking up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations Additional information: None</p>	<p>15. Regulatory information</p> <p>Labelling according to EU-guidelines: The product does not require a hazard warning label in accordance with EC-directives/German regulations on dangerous substances National regulations</p>
<p>7. Handling and storage Advice on safe handling: Avoid formation of aerosol 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</p>	<p>16. Other information</p> <p>Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49 - 89 7876 - 564</p>
<p>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. Clean skin thoroughly after work; apply skin cream. Remove soiled or soaked clothing immediately. Do not inhale aerosol</p>	

The information provided in this leaflet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid if the material is used in combination with any other materials or if it is processed, unless specified in the text.



Klüber Lubrication, a member of the Freudenberg Group