Klüber Silvertex[®] T 22, T 32, T 46

High-performance, antiwear needle and sinker oils



Description

Klüber Silvertex T are highperformance needle and sinker oils based on highly refined mineral oils and synthetic ester.

Klüber Silvertex T oils contain special additives which meet the manifold operating requirements in today's knitting mills. These oils are scourable with conventional washing liquors.

Klüber Silvertex T oils are compatible with elastane fibers.

Application

Klüber Silvertex T oils lubricate needles, sinkers, needle cams, needle cylinders, dials and sinker rings.

The special additives contained in the Klüber Silvertex T oils keep needle tracks clean and extend the service life of needles and sinkers.

Klüber Silvertex T oils are available in ISO VG 22, 32 and 46 viscosity grades. They are suitable for all applications in hosiery, circular and flat-bed knitting machines.

Please observe the machine manufacturer's viscosity recommendations.

Application notes

Klüber Silvertex T oils can be precisely metered by means of conventional oil feeders.

Before changing to Klüber Silvertex T 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 Klüber Solutin Tex M or Klüber Silvertex R 14, our special cleaning agents, to clean your machines. The lubricant quantity applied after cleaning should be monitored and readjusted, if required.

Minimum shelf life

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

Pack sizes

20 I canister 200 I drum

Klüber Silvertex T oils

- Scourable with conventional washing liquors
- Good corrosion protection
- Noise and oscillation dampening
- Compatible with elastane fibers
- Suitable for oil circulation systems in hosiery knitting machines
- Emulsifiable

Product data

	Klüber Silvertex T 22	Klüber Silvertex T 32	Klüber Silvertex T 46
Color, aspect	colorless, clear	colorless, clear	colorless/light yellow, clear
Density DIN 51757, at			
20°C, g/ml, approx.	0.87	0.87	0.88
Kinematic viscosity			
DIN 51562	00.0	20	40
at 40°C, mm²/s, approx.	22,8	32	46
at 100°C mm²/s, approx.	4.4	5.3	7.4
Pour point, DIN ISO 3016, °C,			
approx.	<u><</u> -9	<u><</u> -9	<u><</u> -9
Flash point,			
DIN ISO 2176, °C,			
approx.	> 190	> 190	> 190

Klüber Silvertex[®] T 22, T 32, T 46 Safety Data Sheet

1.1	Product name: Klüber Silvertex a) T 22, b) T 32, c) T 46 Code-No.: a) 035 507, b) 035 508, c) 035 509		Physical and chemical pu Form	roperties liquid
	14.09.2000		Colour	colourless
			Odour	characteristic
				≤ – 9 °C. DIN ISO 3016
.2	Klüber Lubrication München KG Emergency telephone no.:		Pour point	S = 9 °C, DIN ISO 3016 > 190 °C, DIN ISO 2592
	Geisenhausenerstraße 7 ++49 - 89 7876 - 0		Flash point	
	D-81379 München		Ignition temperature	not applicable
	Tel. ++49 - 89 78 76 - 0 telephone exchange		Lower explosion limit	not applicable
	Fax: ++49 - 89 78 76 - 333		Upper explosion limit	not applicable
			Vapour pressure-first	not applicable
			Density	a, b) approx. 0.87 g/cm ³ ,
2. Co	Composition / information on ingredients		Density	c) approx. 0.88 g/cm 3 ,
•	Chemical characterization (preparation): Mineral oil, emulsifier, ester oil			
				20 °C, DIN 51 757
			Water solubility	emulsifiable
3.	Hazards identification		pH value	neutral
			Kinematic viscosity	a) approx. 22 mm ² /s,
	No particular hazards known		,	b) approx. 32 mm ² /s,
				c) approx. 46 mm^2/s ,
				40 °C, DIN 51 562
	First aid measures		Further information	
	After inhalation: Not applicable		Further information	none
	After contact with skin: Wash off with soap and plenty of water			
	After contact with eyes: Rinse with plenty of water	10.	Stability and reactivity	
	After ingestion: Do not induce vomiting. Obtain medical attention		Conditions to avoid: Do no	t heat above flash point
	Advice to doctor: Treat symptomatically. If swallowed or in the event of		Materials to avoid: Strong	oxidizing agents
	vomiting, risk of product entering the lungs		0	00
	termang, new er product enternig the lange			products: None under normal use
			Additional information: Nor	ne
5.	Fire-fighting measures			
•••	Suitable extinguishing media: Water spray, foam, dry powder,			
	carbon dioxide (CO_2)	11.	Toxicological information	n
				been taken from products of similar
	Unsuitable extinguishing media: High volume water jet		composition	been taken nom products of similar
	Special Hazards: In case of fire the following can be released: Carbon		•	
	monoxide, hydrocarbons		Acute toxicity: LD ₅₀ /oral/rat	t = > 2 g/kg (literature data)
	Special protective equipment for firefighters: Standard procedure for		Chronic toxicity: None	
	chemical fires		,	ged skin contact may cause skin irritation
			and/or dermatitis	ged skin contact may cause skin initation
	Additional information: Water mist may be used to cool closed		and/or dermatitis	
	containers. In the event of fire and/or explosion do not breathe fumes			
		12.	Ecological information	
6.	Accidental release measures		Information on elimination	(persistence and degradability): The produce
	Personal precautions: Risk of slipping due to leakage/spillage of product		has not been tested	
	Environmental precautions: Do not flush into surface water or sanitary		Rehaviour in environmenta	I compartments: Ecological injuries are not
	sewer system		known or expected under r	
	Methods for cleaning up / taking up: Soak up with inert absorbent		Ecotoxic effects: The produ	
	material (e.g. sand, silica gel, acid binder, universal binder, sawdust).			not discharge product unmonitored into the
	Dispose of absorbed material in accordance with the regulations		environment	
	Additional information: None			
		13.	Advice on Disposal	
7.	Handling and storage		Disposal Dispose of in acc	cordance with your local, state and federal
	Advice on safe handling: Avoid formation of aerosol		regulations as used oil for	
	Advice on protection against fire and explosion: No special precautions		•	5
				ackaging and recommended cleaning: Offe
	required		rinsed packaging material	to local recycling facilities
	Requirements on storage rooms and vessels: No special storage	<u> </u>		
	conditions required			
	Incompatible materials: Incompatible with oxidizing agents. Do not store	14.	Transport information	
	together with food		GGVS / GGVE:	not applicable
	Further information on storage conditions: Store at room temperature in		ADN / ADNR:	not applicable
	the original container		IMDG-Code:	not applicable
			ICAO / IATA-DGR:	not applicable
			Further information: Not cla	assified as dangerous in the meaning of
8.	Exposure controls / personal protection		transport regulations	
	Additional advice on system design: Not applicable			
	Ingredients and specific control parameters: None	4=	Pogulatory information	
	Respiratory protection: No special protective equipment required		Regulatory information	and deliver as The second set of the second set of the
	Hand protection: No special protective equipment required			guidelines: The product does not require a
				cordance with EC-directives/German
	Eye protection: No special protective equipment required		regulations on dangerous	substances
	Body protection: No special protective equipment required		National regulations	
	Other protection measures: No special protective equipment required		5	
	General protection and hygiene measures: Avoid prolonged and/or			
	repeated contact with skin. Clean skin thoroughly after work; apply skin	16	Other information	
	cream. Remove soiled or soaked clothing immediately. Do not inhale	'0.		/ Data Sheet: Chemical Documentation,
				, Data Sheet, Shernical Ducumentaliun,
	aerosol		Tel.: ++49 - 89 7876 - 564	

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

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