

# Klüber Silvertex P 91

Synthetic special oil for knitting machines



## Your benefits at a glance

- Dissolves yarn and oil residues on stitch-forming elements, no dismantling of components necessary
- Proven running-in oil for new cylinders, needles, sinkers and cams

## Your requirements - our solution

In the knitting industry, requirements in terms of a lower defect rate, less downtime and higher production rates are becoming more and more stringent. We therefore developed Klüber Silvertex P 91, a special oil which is manufactured in consistent quality using a special synthetic base oil and additives. Klüber Silvertex P 91 can be used to dissolve deposits and smoothen/run in metal surfaces. This helps reduce your operating costs.

## Application

Due to its low viscosity, Klüber Silvertex P 91 penetrates even very tight clearances of your knitting machines. Klüber Silvertex P 91 dissolves oil or yarn residues on cylinders, dials, sinker rings, needles, sinkers, couplings and cams of your knitting machine. The oil thus cleans the needle slots, enabling better backflow of the new needle oil and better wetting of the lubricated surfaces. This leads to longer needle and sinker life in your high-performance knitting machine.

Klüber Silvertex P 91 has proven successful as running-in oil for new machines, needles, cylinders and/or needle cams. Due to the low viscosity of Klüber Silvertex P 91, metal particles are flushed from the machine with the oil.

Klüber Silvertex P 91 can be used in circular, flat-bed and hosiery knitting machines.

## Application notes

Klüber Silvertex P 91 is supplied ready-to-use.

### *Circular knitting machines:*

Klüber Silvertex P 91 can be applied through the oiler system of the knitting machine or by means of a suitable hand oiler. Circular knitting machines running at very high speeds should be slowed down prior to applying Klüber Silvertex P 91. Please note that due to the dissolving effect of Klüber Silvertex P 91, residues are flushed from the machine, possibly increasing contamination of the knitwear.

### *Flat-bed knitting machines:*

Klüber Silvertex P 91 is applied on today's flat-bed knitting machines in the same way as on circular knitting machines. Please ensure that the needle butts or sinker slides as well as needle cams are relubricated with the same needle and sinker oil after applying Klüber Silvertex P 91.

Relubrication intervals specified by some machine manufacturers have to be reduced. As Klüber Silvertex P 91 changes its viscosity with decreasing temperatures, we recommend heating it up before use in order to ensure trouble-free operation of the machines.

If you wish to optimise the service life of your knitting machine or have any other questions regarding your application, our experts will be pleased to help you. We look forward to hearing from you.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüber Silvertex P 91
Canister 20 l	+

# Klüber Silvertex P 91

Synthetic special oil for knitting machines



Characteristics	Klüber Silvertex P 91
Article number	035517
Appearance	clear
Colour space	yellow
Biodegradability, CEC-L-33-A-93, 21, after days	≥ 70 %
Density, DIN 51757, 20°C	approx. 0.95 g/cm <sup>3</sup>
Flash point, DIN EN ISO 2592, Cleveland open cup	≥ 220 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 3.6 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 14.3 mm <sup>2</sup> /s
Pour point, DIN ISO 3016	≤ -5 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

Klüber Lubrication München GmbH & Co. KG /  
Geisenhausenerstraße 7 / 81379 München / Germany /  
phone +49 89 7876-0 / fax +49 89 7876-333.

The data in this document is based on our general experience and knowledge at the time of publication 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 field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München GmbH & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München GmbH & Co. KG and if source is indicated and voucher copy is forwarded.