

# Klübertec ST 4-701

Stamping and forming fluid



## Benefits for your application

- Excellent stamping and cutting properties
- Compatibility with paints without pre-degreasing of metal components after processing
- Micro-dosage
- Low consumption

## Description

Klübertec ST 4-701 is a thin-bodied mixture of ester oil and aliphatic hydrocarbons. Its synthetic structure provides improved lubricity during the stamping of metal sheets plus a wear reducing effect on machine tooling.

The solvent contained (90 %) evaporates upon application so that subsequent processes (welding, glueing, painting) are not affected in most cases.

## Application

- Blanking & drawing of steel and non-ferrous sheet metal between 0.2 and 2.5 mm thick
- Rolling, deep drawing, edging and folding, e.g. in the manufacture of drum lids
- Preserving steel components, e.g. brake parts
- Corrosion protection of assembly components

- rolling (felt rollers)
- spot application
- immersion

over the entire width of the sheet or on predetermined parts. The lubricating film thickness can be increased by adding Klüberfluid 9 R 100, thus increasing the forming capacity, e.g. forming of sheets to a thickness up to 3 mm and draw depth of 100 mm (steel sheets to a thickness of approximately 1.5 mm).

Evaporation upon process completion can be accelerated by moving air (fan, etc.) or heat (not above 60 °C).

## 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.

## Application notes

The product can be applied by

- spraying

Pack sizes	Klübertec ST 4-701
Canister 20 l	+
Drum 200 l	+

Product data	Klübertec ST 4-701
Article number	046067
Appearance	clear to slightly turbid
Colour space	yellow



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Density, DIN 51757, 20 °C	approx. 0.79 g/cm <sup>3</sup>
Flash point, DIN EN ISO 2719, Pensky-Martens, closed cup	60 - 72 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 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 80 years.

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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.

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