

PRESSPATE SEM 95 800 T, PRESSPATE TB

High-performance lubricants for cold forming of sheets and tubes



Your benefits at a glance

- Reduction of friction and wear, especially in deep-drawing and bending operations involving high degrees of deformation
- Improving process stability for a lower reject rate
- Increasing tool life; reduction of tooling costs and set-up times compared with conventional, fluid metal forming oils
- Workpieces can be cleaned using conventional cleaning agents and processes

Your requirements - our solution

In your metal forming operations, the challenge is to find a reliable lubricant that protects tools against wear. Upon completion of the forming process, the lubricant should be easily removed.

In this respect, PRESSPATE SEM 95/800 T and PRESSPATE TB can offer optimal support. Both products offer excellent lubrication performance especially when used for the cold forming of thick or thin metal sheets or tubes. This ensures easier process start-up even under difficult ambient conditions leading to a reduction of reject rates.

Due to the very good lubricating performance, PRESSPATE SEM 95/800 T and PRESSPATE TB pastes can be applied in small quantities. Consequently, components are easy to clean using aqueous systems.

PRESSPATE SEM 95/800 T has been tried and tested with numerous applications. For more taxing bending processes requiring higher performance, PRESSPATE TB should be given preference.

Application

You may use PRESSPATE SEM 95/800 T and PRESSPATE TB for highly varied applications in cold metal forming, especially for sheet metal and tubes.

This includes processes such as:

- drawing and deep drawing
- bending
- hydroforming

- tube bending using a mandrel
- calibrating sintered parts upon sintering

Both products have been successfully used in the processing of alloys based on steel, stainless steel, brass, aluminium and titanium.

Application notes

PRESSPATE SEM 95/800 T and PRESSPATE TB should be applied undiluted and at ambient temperature using conventional application methods, for example a sponge, brush or roller. In some cases automatic spreading could be a suitable option.

PRESSPATE SEM 95/800 T and PRESSPATE TB should not be agitated vigorously prior to application as this might affect the paste's consistency.

Guidance for cleaning by means of aqueous cleaning agents after the forming process:

- in ultrasonic bath at 60 °C minimum and for at least 30 seconds
- SurTec 143 for splash cleaning (SurTec 042 for steel)
- SurTec 089 for immersion cleaning

In this context you may also contact our partner company SurTec (www.SurTec.com).

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	PRESSPATE SEM 95/800 T	PRESSPATE TB
Can 1 kg	+	+
Bucket 25 kg	+	+

PRESSPATE SEM 95 800 T, PRESSPATE TB

High-performance lubricants for cold forming of sheets and tubes



Pack sizes	PRESSPATE SEM 95/800 T	PRESSPATE TB
Drum 180 kg	+	+

Characteristics	PRESSPATE SEM 95/800 T	PRESSPATE TB
Article number	043050	043104
Colour space	beige	beige
Texture	gritty , soft	gritty , soft
Density, Klüber method: PN 024, 20°C	approx. 0.95 g/cm ³	approx. 0.93 g/cm ³
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 100 mm ² /s	approx. 220 mm ² /s
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	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 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.