Presspate® SEM 95/800

Lubricant for sheet drawing



Description

Presspate SEM 95/800 is a deep drawing lubricant for sheet drawing. The grease is very soft and easily spreadable, which makes it economical in application.

Application

Presspate SEM 95/800 is used for thin sheet pressing for materials as e.g.

- steel sheets,
- platinized steel sheets,
- special steel sheets,
- aluminum sheets, and
- sheets made of copper alloys.

Application processes

- deep drawing,
- stretch forming,
- pressing,

and comparable manufacturing processes.

Application notes

Presspate SEM 95/800 is a readyto-use product. It can be applied manually or automatically. The application should be in the temperature range between 35 and 50 °C because consistency mainly depends on the temperature.

Automatically

- rolling
- spraying with grease lubricating devices

Manually

- rolling
- by brush

The drawn parts can be cleaned with acidic or alkaline-aqueous cleaners.

Package sizes

25 kg bucket 200 kg drum

Storage

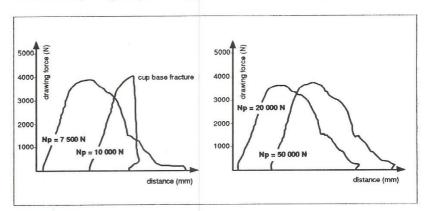
Storage time 2 years

Presspate SEM 95/800

- very efficient in deep drawing
- good anticorrosion properties
- can be removed easily
- very economical
- environmentally friendly
- · free from chlorine

Mechanical-dynamic testing of deep drawing lubricants

The suitability tests and quality controls of Klüber Lubrication products are carried out with an especially adapted test rig in accordance with the cupping test.



Results:

Force-distance diagram of a low-quality deep drawing product (cup base fracture occurs already with a clamping force of 10,000 N).

Deep drawing sheet:

Die speed:

Clamping force:

v = 3 mm/s Np = 7,500 and 10,000 N

Force-distance diagram of a deep drawing product suitable also for complex drawing processes – Presspate SEM 95/800 (perfect operation possible with a clamping force of 50,000 N).

Deep drawing sheet:

Die speed:

Clamping force:

St 4 v = 3 mm/s

Np = 20,000 and 50,000 N

Presspate® SEM 95/800

Material Safety Data Sheet

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Manufacturer's name: Klüber Lubrication München KG Chemical name and synonyms: Lubricating grease Presspate SEM 95/800 Trade name and synonyms:

Chemical family:

Mineral oil, tallow, waxy hydrocarbons, inorganic

solid lubricant

Formula:

Proprietary

Section II - Hazardous Ingredients

Paints, preservatives, solvents

Failts, preservatives, solvents		
	%	TLV (units)
Pigments		-
Catalyst	_	_
Vehicle	_	_
Solvents	-	
Additives	-	_
Others	_	-
Alloys and metallic coatings		

TLV (units) Base metal Alloys Metallic coatings Filler metal plus coating or core flux

Hazardous mixtures of other liquids, solids, or gases

Section III - Physical Data

Boiling point: n/a Vapor pressure (mm Hg): n/a

Vapor density (air=1): Solubility in water: Specific gravity (H₂O=1):

not soluble approx. 0.95

Percent, volatile by volume (%): 0 Evaporation rate (.....=1):

Appearance and odor:

beige, neutral odor

Section IV - Fire and Explosion Hazard Data

Flash point (base oil)

> 200 °C, ASTM D-92

Flammable limits: --

Uel: Lel:

Extinguishing media: water fog, foam, dry chemical, CO,

Special fire fighting procedures:

Use self-contained breathing apparatus, cool fire exposed areas and equipment.

Unusual fire and explosion hazards:

Do not use direct stream of water, material may float and reignite.

Section V - Health Hazard Data

Threshold limit value: n/a Effects of overexposure: Eyes: Mild irritation

Skin: Mild irritation, may cause dermititis, oil acne or

folliculitis with repeated contact.

Ingestion: No more than slightly toxic if swallowed.

Inhalation: n/a

Emergency and first aid procedures:

Eyes: Flush with large amount of water.

Skin: Remove contaminated clothing, wash skin with soap

and water, launder clothing prior to reuse.

Ingestion: Contact doctor for directions. Never give any-

thing by mouth to an unconscious person.

Section VI - Reactivity Data

Stability: stable

Incompatibility (materials to avoid):

Strong oxidizing materials, such as pure oxygen

Hazardous decomposition products: n/a Hazardous polymerization: will not occur

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Eliminate all sources of ignition. Collect lubricating grease. Keep product out of waterways.

Waste disposal method:

Incinerate material or dispose of in accordance with your local, state and federal regulations.

Section VIII - Special Protection Information

Respiratory protection (specify type): n/a

Ventilation:

n/a recommended

Local exhaust: Special:

Mechanical (general):

Other: Protective gloves: n/a

Eye protection:

n/a

Other protective equipment:

no

Section IX - Special Precautions

Precautions to be taken in handling and storing: Minimize skin contact with all lubricants. Wash with soap and water prior to eating, drinking, smoking or using

sanitary facilities.

Other precautions:

All chemical products should be handled as to prevent constant or repeated contact.

This information corresponds with the state of our knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. The assurance of properties, product responsibility or guarantee are impossible without our clarification as to the specific application of use and service conditions.



Klüber Lubrication, a member of the Freudenberg group of companies