

# Klüberplus S 06-100, -100 M2, -100 M4

Gel for facilitated assembly of elastomer and plastic components



## Benefits for your application

- **Cost savings due to shorter assembly times and reduction of rejects due to lower assembly forces**
- **Environmentally sound and safe to use**
  - Lower consumption of chemicals due to excellent temporary lubricating effect
  - Non-flammable, water-based design - without solvent, mineral oil or silicones
  - Prevents workplace injuries due to less force required for assembly
- **Neutral towards many materials, including EPDM, NBR, FKM, VMQ, ACM**

## Description

When joining or assembling rubber-elastic materials, it is particularly important that the components can be fitted perfectly without excessive force.

Ill-fitting or damaged surfaces are frequently the result of less than optimal assembly lubrication, e.g. by mineral-oil-based products, soap solutions, water or silicones.

In the application, this may become apparent in the form of corrosion, poor compatibility, impaired wetting of elastomers or residues.

As products matching precisely these applications we developed Klüberplus S 06-100, -100 M2, and -100 M4. During assembly, these products generate a temporary lubricating effect that makes the components fit into each other smoothly. As assembly forces are evidently up to 75 % lower, the amount of reject can be reduced and the production rate increased. As the water evaporates, the product ceases to act as a lubricant, so the component is fixed firmly in place. Klüberplus S 06-100, -100 M2 and -100 M4 offer you a wide variety of uses as they are neutral towards most customary materials.

The Klüberplus S 06 series is available in three ready-to-use viscosity variants. Owing to the gel-like texture of Klüberplus S 06-100, this product adheres well to the assembled component, so overhead application is easily possible with the workplace remaining clean. Klüberplus S 06-100 M2 and 100 M4 are ready-to-use emulsions with a lower viscosity. They are therefore preferably used for immersion or spray application, or generally in applications where a lower viscosity is required.

## Application

The Klüberplus S 06 series was developed to have a temporary lubricant for joining and assembly processes involving rubber-elastic materials and plastic components. The product concept has proven particularly successful in profiled seals, shaft seals, rubber sleeves and O-rings in the automotive industry. It may,

however, also be used in many other industries and applications involving the joining and assembly of rubber-elastic components.

Application examples:

- O-rings
- Membranes, bushings
- Radial shaft seals (RSS) on shafts and in casings
- Cover caps (e.g. for gear shafts)
- Profiled seals, e.g. for doors, windows, crankshaft casings
- Stopper and fixing elements
- Sealing elements, moulded rubber parts
- Hoses (e.g. brake fluid, cooling fluid and fuel hoses)
- Steering column boots
- Bellows
- Exhaust system hangers
- Tyres
- Headlamp/tail lamp and lighting assemblies
- as well as many other rubber or soft plastic parts

## Application notes

The Klüberplus S 06 series shows good stability and no tendency to separation even after prolonged storage. Stirring is therefore not required prior to use. The products' viscosity can be reduced by dilution with water. Once diluted, the product should be used up completely without delay. The Klüberplus S 06-100 series prevents during its application and upon complete evaporation of any water the immediate formation of rust / contact corrosion for a limited period of time. To prevent lime deposits on the component, we recommend using demineralised water.

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Protect from frost. If frozen let the product thaw at room temperature. Due to the variety of materials, compatibility with the component should be checked under conditions similar to series application.

Klüberplus S 06-100, -100 M2 and -100 M4 are ready-to-use products for application by brush, sponge, squeeze bottle or immersion. If required, you can order a re-usable drain cock for our 20 kg canister to facilitate the metering and handling of Klüberplus S 06 series.



## 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	Klüberplus S 06-100	Klüberplus S 06-100 M2	Klüberplus S 06-100 M4
Can 1 kg	+	+	+
Canister, polyethylene (HDPE) 5 kg	-	+	+
Canister 20 kg	+	+	+
Bucket 25 kg	-	+	+
Bucket 25 kg	+	-	-
Drum, 180 kg	+	-	-



Product data	Klüberplus S 06-100	Klüberplus S 06-100 M2	Klüberplus S 06-100 M4
Article number	012102	012342	012343
Colour space	white	white	white
Density at 20 °C	approx. 1.00 g/cm <sup>3</sup>	approx. 1.00 g/cm <sup>3</sup>	approx. 1.00 g/cm <sup>3</sup>
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 1 400 mm <sup>2</sup> /s	approx. 75 mm <sup>2</sup> /s	approx. 13 mm <sup>2</sup> /s
pH-value, DIN ISO 976	approx. 8	approx. 8	approx. 8
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	12 months	12 months



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### 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.

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

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