

POLYLUB GLY 791

Special synthetic lubricating grease for plain bearings subject to high loads and temperatures



Benefits for your application

- **For metal/metal and plastic/steel material pairings**
- **Neutral towards many plastics and elastomers**
- **Provides good wear protection to fibre-reinforced plastics**
- **Good corrosion protection of metal mating surfaces**

Description

POLYLUB GLY 791 is based on a synthetic hydrocarbon oil, mineral oil and special lithium soap. It has been designed for friction reduction and wear protection of plain bearings and slideways with metal/metal or plastic/metal material pairings.

This special lubricant covers a wide range of operating conditions, from low to high speeds and loads, even in the case of fibre-reinforced plastic components and metal/plastic sliding pairings.

The lubrication of plastics is special in a number of ways. As the behaviour of metals and plastics differs in many aspects, the lubricant's properties have to be adjusted to the plastic.

Compared to many metals, plastics are relatively soft. Solid lubricants, which may achieve a positive effect on many metal friction points, can have a negative or no effect at all on plastic lube points. With the formulation of POLYLUB 791, Klüber Lubrication offers a product which is free of solid lubricant, but covers the many operating conditions mentioned above.

Owing to the many different plastic compositions, however, we recommend checking their compatibility particularly prior to series application.

Application

Vehicles:

Seat mechanisms, shock absorbers

Slideways, plain bearings:

For many types of plain bearing designs.

POLYLUB GLY 791 prevents stick-slip to a large extent, particularly in applications where normally a hydrodynamic film cannot form.

Owing to the good damping properties, noise and cracking is considerably reduced.

Application notes

POLYLUB GLY 791 is applied by brush, spatula or automatic metering systems. The use of central lubrication systems is possible in principle but should be checked in each individual case.

Material safety data sheets

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

Pack sizes	POLYLUB GLY 791
Bucket 25 kg	+



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Product data	POLYLUB GLY 791
Article number	020206
Lower service temperature	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F
NLGI grade, DIN 51818	1
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm
Shear viscosity at 25°C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	9 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	6 500 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Drop point, DIN ISO 2176	>= 230 °C
Colour space	orange
Oil separation, based on ASTM D 6184 [FTMS 791 C 321] after 30 h/150 °C	<= 9 % by weight
Four-ball tester, wear factor, DIN 51350 pt. 05, 1 h/400 N, wear scar diameter	<= 0.9 mm
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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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