ISOFLEX TOPAS NB 52, NB 152

Synthetic rolling and plain bearing greases

Benefits for your application

- **Longer component life when exposed to water or aqueous media due to special thickener**
- **Many years of successful use in the automotive and machine building industries**

Description

ISOFLEX TOPAS NB 52 and ISOFLEX TOPAS NB 152 are rolling and plain bearing greases based on a synthetic hydrocarbon oil and a barium complex soap. The special barium-soap thickener used in the ISOFLEX TOPAS NB 52 and 152 greases offers good load-carrying capacity as well as resistance to water and ambient media unlike other soap-based thickeners. Both products show good protection against corrosion as well as oxidation and ageing stability. The Klüber barium complex soap is ELINCS-registered and approved by GASG (Global Automotive Stakeholders Group).

ISOFLEX TOPAS NB 152 can be used in a wide service temperature range from -40 °C to 150 °C. ISOFLEX TOPAS NB 52 is suitable for temperatures between -50 °C to 120 °C and short peak temperatures up to 150 °C depending on the application, e.g. enclosed gears.

Application

ISOFLEX TOPAS NB 52 is a versatile grease for many applications, e.g.

- rolling and plain bearings subject to high speeds and loads, also for low temperatures,
- tooth flanks in precision gears, e.g. bevel gears in milling machines, electromechanical actuators for valves,
- electric contacts and components to reduce insertion forces.

In addition, ISOFLEX TOPAS NB 152 is compatible with many plasticsWARNUNG: Querverweis wurde gelöscht!.

ISOFLEX TOPAS NB 152 is primarily used for rolling and plain bearings, for example wheel bearings in racing cars, fan bearings, pump bearings. The grease is also suitable for plastic/plastic or steel/plastic friction pointsWARNUNG: Querverweis wurde gelöscht!.

Application notes

The greases are applied by spatula, brush, grease gun or cartridge.

Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

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	ISOFLEX TOPAS NB 52	ISOFLEX TOPAS NB 152
Cartridge 400 g	+	+
Can 1 kg	+	+
Bucket 25 kg	+	+

ISOFLEX TOPAS NB 52, NB 152

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Product data	ISOFLEX TOPAS NB 52	ISOFLEX TOPAS NB 152
Article number	004131	004145
Chemical composition, thickener	barium complex soap	barium complex soap
Chemical composition, type of oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
Lower service temperature	-50 °C / -58 °F	-40 °C / -40 °F
Upper service temperature	120 °C / 248 °F	150 °C / 302 °F
Colour space	beige	beige
Texture	homogeneous	homogeneous
Texture	short-fibred	fibrous
Density at 20 °C	approx. 0.96 g/cm³	approx. 0.96 g/cm³
Worked penetration, acc. to Klein, 25 °C, lower limit value	265 0,1 mm	265 0,1 mm
Worked penetration, acc. to Klein, 25 °C, upper limit value	295 0,1 mm	295 0,1 mm
Shear viscosity at 25 °C, shear rate 300 s-1, equipment: rotational viscometer, lower limit value	4 000 mPas	5 500 mPas
Shear viscosity at 25°C, shear rate 300 s-1, equipment:rotational viscometer, upper limit value	8 000 mPas	9 500 mPas
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5.9 mm²/s	approx. 14.5 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 30 mm²/s	approx. 100 mm²/s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	0 corrosion degree	0 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree	
Copper corrosion, DIN 51811, (lubricating grease), 24h/120 °C		1 - 120 corrosion degree
Oil separation, ASTM D 6184 [FTMS 791 C 321], after 30 h/100 °C	<= 3 % by weight	<= 2 % by weight
Drop point, DIN ISO 2176	>= 240 °C	>= 240 °C
Oxidation stability of lubricating greases, DIN 51808, 100 h/99 °C, pressure drop	<= 0.3 bar	<= 0.1 bar
Speed factor (n x dm)	approx. 1 000 000 mm/min	approx. 600 000 mm/min
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90 rating	0 - 90 rating

Product information

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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.

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