

# ISOFLEX® TOPAS L 152

Rolling bearing grease for a wide service temperature range

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## Benefits for your application

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- **Wide service temperature range and excellent low-temperature stability owing to the special synthetic base oil**
  - **Recommended for roller bearings due to the adequate oil separation behavior, particularly under sliding friction conditions**
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### Application

ISOFLEX TOPAS L 152 is used for rolling bearings, e.g. in electric motors where smooth running is required and a wide range of temperatures is to be covered, e.g. in traction motors.

The grease can also be used for the main bearings in wind power stations and plastic/plastic or plastic/steel friction points.

- Axlebox bearings with line contact, e.g. railways
- Applications requiring low starting torques at low temperatures

### Application notes

ISOFLEX TOPAS L 152 can be applied by spatula, brush or grease gun. Owing to the many different elastomer and plastic compositions their compatibility has to be checked prior to series applications.

### 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.

### Pack sizes

- 1 kg can
- 25 kg bucket

### Material Safety Data Sheets

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



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Rolling bearing grease for a wide service temperature range

Product data	ISOFLEX TOPAS L 152
Color	beige
Texture	homogeneous, short-fibred
Density at 20°C, [g/cm <sup>3</sup> ], approx.	0.88
Service temperature range*, [°C], approx.	-50 to 150
Drop point, DIN ISO 2176, [°C]	> 185
Worked penetration, DIN ISO 2137 (ASTM D 217), 25°C, [0.1 mm]	265 - 295
Corrosion protection (Emcor test) DIN 51 802, 1 week, distilled water, corrosion rating	≤ 1
Base oil viscosity, DIN 51 562, pt. 01 at 40°C, [mm <sup>2</sup> /s], approx. at 100°C, [mm <sup>2</sup> /s], approx.	100 14.5
Speed factor** (n x d <sub>m</sub> ), [mm x min <sup>-1</sup> ], approx.	600,000
Apparent dynamic viscosity, 25°C, shear rate 300 s <sup>-1</sup> , device: rotational viscometer, [mPas]	4,000 – 8,000
Copper corrosion, DIN 51 811, (lubricating grease), 24 h/100°C, corrosion rating	1-100
Oil separation, FTMS 791 C 321.3 (ASTM D 6184), after 30h/100°C, [% by weight]	≤ 4
Oxidation stability of lubricating greases, DIN 51808, 100h/99°C, pressure drop, [bar]	≤ 0.3
Water resistance, DIN 51 807 pt. 01, 3h/90°C, rating	1-90

\* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

\*\* Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

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