

## CONSTANT OY oils

Synthetic impregnating oils for sintered metal plain bearings



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### Benefits for your application

- **Longer service life due to good oxidation and ageing resistance**
  - **Wide range of application due to high thermal stability**
  - **High reliability and maintenance-free application due to lifetime lubrication**
  - **Individual range of applications due to good corrosion protection**
  - **Energy saving due to low starting and running torques**
  - **Individual range of applications due to several oil viscosities**
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### Description

CONSTANT OY oils are synthetic lubricants based on synthetic hydrocarbons. With their additives and their particular composition, these oils have been developed for a wide temperature range and show good anticorrosive characteristics. CONSTANT OY oils are particularly suitable for the lifetime lubrication of sintered metal plain bearings.

bearing life, the ready-to-use product MIKROZELLA G ...OY containing a base oil with a corresponding viscosity can be applied to the outer surface of the bearing by means of conventional, fully automatic metering systems. Prior to series application, we recommend checking the use of the metering system under practice-like conditions.

### Application

CONSTANT OY oils were developed for the lubrication of sintered metal plain bearings in precision engineering, automotive engineering, electrical and household engineering.

### Minimum shelf life

The minimum shelf life is approx. 60 months if the product is stored in its unopened original container in a dry, frost-free place.

### Application notes

The pores of the sintered metal plain bearing are filled with CONSTANT OY oils in a vacuum immersion process. For longer

### 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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Pack sizes	CONSTANT OY 390	CONSTANT OY 220
Canister 20 l	+	+
Drum 200 l	+	+

Product data	CONSTANT OY 32	CONSTANT OY 46
Article number	028057	028060
Chemical composition, type of oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
Lower service temperature	-50 °C / -58 °F	-50 °C / -58 °F
Upper service temperature	140 °C / 284 °F	140 °C / 284 °F
Colour space	yellow	yellow
Density, DIN 51757, 20 °C	approx. 0.84 g/cm <sup>3</sup>	approx. 0.83 g/cm <sup>3</sup>
Refraction index, DIN 51423 pt. 02, at 20 °C	approx. 1.461 nD20	approx. 1.463 nD20
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 32 mm <sup>2</sup> /s	approx. 46 mm <sup>2</sup> /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 6.3 mm <sup>2</sup> /s	approx. 8 mm <sup>2</sup> /s
ISO viscosity grade, DIN ISO 3448	32	46
Viscosity index, DIN ISO 2909	>= 120	>= 130
Pour point, DIN ISO 3016	<= -50 °C	<= -50 °C



CONSTANT OY 100	CONSTANT OY 32	CONSTANT OY 46	CONSTANT OY 68	CONSTANT OY 150
+	+	+	+	+
+	+	-	+	+

CONSTANT OY 68	CONSTANT OY 100	CONSTANT OY 150	CONSTANT OY 220	CONSTANT OY 390
028062	028055	028063	028054	028061
synthetic hydrocarbon oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
-40 °C / -40 °F	-40 °C / -40 °F	-35 °C / -31 °F	-30 °C / -22 °F	-25 °C / -13 °F
140 °C / 284 °F	140 °C / 284 °F	140 °C / 284 °F	140 °C / 284 °F	140 °C / 284 °F
yellow	yellow	yellow	yellow	yellow
approx. 0.83 g/cm <sup>3</sup>	approx. 0.84 g/cm <sup>3</sup>	approx. 0.84 g/cm <sup>3</sup>	approx. 0.85 g/cm <sup>3</sup>	approx. 0.85 g/cm <sup>3</sup>
approx. 1.464 nD20	approx. 1.467 nD20	approx. 1.468 nD20	approx. 1.47 nD20	approx. 1.472 nD20
approx. 68 mm <sup>2</sup> /s	approx. 100 mm <sup>2</sup> /s	approx. 150 mm <sup>2</sup> /s	approx. 220 mm <sup>2</sup> /s	approx. 390 mm <sup>2</sup> /s
approx. 10 mm <sup>2</sup> /s	approx. 13 mm <sup>2</sup> /s	approx. 19 mm <sup>2</sup> /s	approx. 25 mm <sup>2</sup> /s	approx. 39 mm <sup>2</sup> /s
68	100	150	220	
>= 130	>= 130	>= 130	>= 130	>= 130
<= -45 °C	<= -40 °C	<= -40 °C	<= -40 °C	<= -25 °C



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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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