

# 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, car seat adjustment mechanisms.

- 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 plastics.

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 points.

## Application notes

The greases are applied by spatula, brush, grease gun or cartridge. Sprays should not be exposed to direct sunlight and temperatures above 50 °C.

## 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,

## 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	ISOFLEX TOPAS NB 52	ISOFLEX TOPAS NB 152	ISOFLEX TOPAS NB 52 Spray
Aerosol can 400 ml	-	-	+
Can 1 kg	+	+	-
Cartridge 400 g	+	+	-
Bucket 25 kg	+	+	-

## Note

Except for the article number and the minimum shelf life, the spray data below refer to the solvent-free spray agent.

Direktorius  
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2021-06-18



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# ISOFLEX TOPAS NB 52, NB 152

Synthetic rolling and plain bearing greases

Product data	ISOFLEX TOPAS NB 52	ISOFLEX TOPAS NB 152	ISOFLEX TOPAS NB 52 Spray
Article number	004131	004145	081326
Chemical composition, thickener	barium complex soap	barium complex soap	barium complex soap
Chemical composition, type of oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil	synthetic hydrocarbon oil
Lower service temperature	-50 °C / -58 °F	-40 °C / -40 °F	-50 °C / -58 °F
Upper service temperature	120 °C / 248 °F	150 °C / 302 °F	120 °C / 248 °F
Colour space	beige	beige	beige
Texture	homogeneous	homogeneous	homogeneous
Texture	short-fibred	fibrous	short-fibred
Density at 20 °C	approx. 0.96 g/cm <sup>3</sup>	approx. 0.96 g/cm <sup>3</sup>	approx. 0.96 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm	265 x 0.1 mm	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm	295 x 0.1 mm	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 30 mm <sup>2</sup> /s	approx. 100 mm <sup>2</sup> /s	approx. 30 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5.9 mm <sup>2</sup> /s	approx. 14.5 mm <sup>2</sup> /s	approx. 5.9 mm <sup>2</sup> /s
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	4 000 mPas	5 500 mPas	4 000 mPas
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, upper limit value	8 000 mPas	9 500 mPas	8 000 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	0 corrosion degree	0 corrosion degree	0 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/100 °C	1 - 100 corrosion degree		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	<= 3 % by weight
Drop point, DIN ISO 2176, IP 396	>= 240 °C	>= 240 °C	>= 240 °C
Oxidation stability of lubricating greases, ASTM D942, 100 h/99 °C, pressure drop	<= 0.3 bar	<= 0.1 bar	<= 0.3 bar
Speed factor (n x dm)	approx. 1 000 000 mm/min	approx. 600 000 mm/min	approx. 1 000 000 mm/min
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90	0 - 90	<= 1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months	24 months

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2021-06-18



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2021-06-14





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QUALITY PASSPORT No. 14318 dd 08.06.2016

**Grease CIATIM-201**



GOST 6267-74 with ch. 1-4

Shelf life: 5 years from the manufacturing date

Consignee:

ЗАО Солирис

кол-во 1 по 0,017 т

INDEX NAME	NORM	Фактически для партий №№				Test method
		3				
		04.2016				
1.Appearance	Homogeneous ointment without lumps from light yellow to light brown	Confirm				Acc.p.p.3.2 of this standard
2. Viscosity effective at 50°C and an average strain rate gradient of 10 s <sup>-1</sup> , Pa·s, not more than	1100	1073				GOST 7163 ASTM D 1092
3.Tensile strength at 50°C, Pa	250-500	420				GOST 7143
4.Dropping point, °C, not less than	175	191				GOST 6793 ASTM D 2265
5.Colloidal stability,% separated oil, not more than	26	25,64				GOST 7142
6.Corrosive effect on metals	Pass	Pass				GOST 9.080 with add. P.p.3.3 of this standard ASTM D 4048
7.Stability against oxidation, mg KOH per 1 g of lubricant, not more than	3	1,1				GOST 5734 with add. P.p. 3.4 of this standard
8.Free alkali content in terms of NaOH, %, no more than	0,1	0,047				GOST 6707
9.Water content	None	None				GOST 2477 ASTM D 95
10.Content of mechanical impurities	None	None				GOST 6479
11.Evaporation at 120°C in 1 hour, %, not more than	25	12,6				GOST 9566
12.Penetration at 25°C	Not standardized	270				GOST 5346 ASTM D 217

Conclusion: product meets the requirements of GOST 6267-74 with ch. 1-4

Head of Production Control Dept



Kopija

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**Товариство з обмеженою відповідальністю**  
**«Російсько-Українське спільне науково-виробниче підприємство Агрінол»**  
**ТОВ «РУ НВП Агрінол»**

Україна, Запорізька обл., 71101, м. Бердянськ, вул. Будівельна, 3-а  
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код за ЄДРПОУ 32365441, ПІН 323654408229, св-во № 100273982

No. 2534/05

31 мая 2021г.

Тендерный комитет  
АО «Литовские железные дороги»

Уважаемые Господа,  
по вашей просьбе направляем дополнительные сведения о качестве масел  
и смазок:

**Циатим-201 GOST 6267-74**

Наименование показателя качества	Требования	Результаты анализа	НТД на метод анализа
Маркировка по стандарту ГОСТ 23258	НЛи6/9-1	НЛи6/9-1	
Диапазон рабочей температуры	от -60 до +90	от -60°C до +90°C	

**Циатим-221 GOST 9433-80**

Наименование показателя качества	Требования	Результаты анализа	НТД на метод анализа
Диапазон рабочей температуры	от -60 до +90	от -60°C до +150°C	

**Циатим-203 GOST 8773-73**

Наименование показателя качества	Требования	Результаты анализа	НТД на метод анализа
Маркировка по стандарту ГОСТ 23258	ИЛи 5/9-2	ИЛи 5/9-2	

Директор ООО «РУ НВП Агрінол»



Director  
Rytis Sologubas

Kopija tikra

2021-06

## GREASEN ŁT 4S

### Физические и химические свойства:

Диапазон рабочих температур смазок составляет:

- GREASEN ŁT-4S2:  $-30 \div 140$  °C,
- GREASEN ŁT-4S3:  $-30 \div 140$  °C.

### Физические и химические свойства:

Смазка GREASEN ŁT-4S применяется для смазывания:

- автомобильных подшипников качения
- крестообразных шарниров в процессе монтажа,
- тяг и направляющих машин, а также других элементов устройств,

### СТАНДАРТЫ, СЕРТИФИКАТЫ. СПЕЦИФИКАЦИЯ:

Greasen ŁT-4S3:  
DIN 51 502: KP3N-30  
ISO 6743-9: CDEA-3

### Физические и химические свойства:

Параметры	Единицы	ŁT-4S2	ŁT-4S3
Число пенетрации после трамбовки при температуре 25°C	мм/10	285	248
Температура каплепадения	°C	190	190
Маслоотделение, 100°C/30 ч	%	2,0	1,5
WłasСмазочные свойства, нагрузка заедания	даН	155	155
Odporność на działanie wody w temp. 38°C. Ubytek smaruУстойчивость к воздействию воды при temp. 38°C. Потеря смазки	%	3,5	3,6

ВНИМАНИЕ: Выше поданные значения физико-химических свойств являются типичными величинами. Фактические величины поданы в сертификатах качества, прилагаемых к каждой партии продукта.

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Rytis Sologubas

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2021-06-18

