

Berusynth GPX 150

Part-No. 9530009

Synthetic EP gear and circulating oil



Product description

Berusynth GPX 150 is a fully synthetic high performance polyalphaolefin based gear oil for gears, roller and plain bearings with exceptional high viscosity index. It provides excellent wear protection even in applications exposed to high loads, shock loads or vibrations. Berusynth GPX 150 significantly exceeds the requirements of DIN 51517-3.

Examples of application

- High loaded spur, bevel, and worm gears of rolling mills, crushers, mills, calenders, cranes, conveyors and open cast mining equipment
- Oil-lubricated roller bearings of vertical roller mills, roller presses, crushers, calenders
- Gears with continuous operating temperatures above 100 °C
- Gearboxes and oil circulation systems in the paper and textile industry
- Machines and equipment in deep freezing plants

Properties

- Excellent protection against wear and seizure
- Very high micro-pitting resistance
- Very high oxidation and aging resistance allowing extended oil change intervals
- Very high viscosity index and therefore low change in viscosity over a wide service temperature range
- Excellent corrosion protection
- Very high shear resistance
- Good demulsifying properties
- Low foaming tendency
- Easily filterable even in the presence of water
- Reduces the coefficient of friction and therefore enables a reduction in service temperature and friction losses
- Exceeds the requirements for lubricating oils CLP according to DIN 51517-3, ANSI/AGMA 9005-F16 as well as CKD and CKSMP according to ISO 12925-1
- Compatible with mineral oil resistant seal materials and machine paints
- Miscible with mineral oil

Characteristic data

Type	Unit	Value	Standard
Base oil		Polyalphaolefin (PAO)	
Color/Appearance		clear, colorless to yellowish	
Kinematic viscosity at 40 °C	mm ² /s	approx. 150	DIN 51562/ASTM D 7042
Viscosity index		177	DIN ISO 2909
Working temperature range	°C	-40 – 150	
Working temperature range	°F	-40 – 302	
Density at 15 °C	g/cm ³	0,856	DIN 51757
Flash point	°C	245	DIN ISO 2592
Pourpoint	°C	-48	DIN ISO 3016
Four ball weld load	kgf	250	ASTM D 2783
FZG test A/8.3/90 - M	Load stage	> 12	DIN ISO 14635-1
FZG micro-pitting test GT-C/8.3/90	Load stage	10	DIN 3990-16

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Type	Unit	Value	Standard
FZG micro-pitting test GT-C/8.3/90 Evaluation of micro-pitting load- carrying capacity		high	DIN 3990-16
Oxidation resistance (312 h/121 °C) Increase of viscosity at 100 °C	%	< 3	DIN ISO 4263-4

Instructions for use

Please read the safety data sheet prior to use to learn about precautions and safety instructions. Always comply with the applicable safety provisions and the intended use. You can request a copy of the current safety data sheet using the contact form on our website www.bechem.de/kontakt or by e-mail to bechem@bechem.de.

Important notes

The information and technical data contained in this data sheet concerning the fields of application and processing for the product listed above are based on our knowledge and experience at the time of printing. Unless otherwise stated, this information is provided solely for reference and does not constitute a specification or warranty of quality in a particular instance. Many factors such as the relevant fields of application and the operating and working conditions are beyond the control of BECHEM. **For this reason, we cannot guarantee the suitability of our products for a specific purpose or application on the part of the customer. The delivery of our products and our liability are subject exclusively to our general sales and delivery conditions. These are available online at www.bechem.de/agb.html.**

Information regarding material compatibility is based on extensive laboratory testing and literature references. Due to the large number of plastics used and their raw materials as well as the complex chemical and morphological polymer structure, the indications regarding compatibility are solely a reflection of general trends. In order to ensure that the product is used correctly for individual orders and particularly for serial production, we recommend that the supplier carries out its own trials and application tests in advance and confirms the compatibility of the product or carries out thorough laboratory tests.

Please refer to the current safety data sheet for information regarding: Hazardous material labelling, safety provisions, and regulations on storage and transport, and take any necessary precautions to protect property and persons.

Because BECHEM products are subject to continuous development, CARL BECHEM GMBH and its associated companies reserve the right to make changes to the technical data in this data sheet at any time.

Visible variations in the product color of each batch as well as changes in the color of delivered products are technically possible and even probable for some products (for instance, due to the influence of temperature on raw materials). These processes are normal and confirmed by BECHEM raw material suppliers. They have no impact on the serviceability, service life, and quality of the products.

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For further information and more detailed product data, please contact us at: info@bechem.com or bechem@bechem.de.

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High loads



Low temperatures



High temperatures



Roller bearings



Closed gears