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## Energyn EPX 320

### EP Synthetic Gear Lubricant

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#### Description; Description

Energyn EPX 320 is a premium quality gear oil based on polyalpha-olefin fluids and containing extreme pressure additives. This ensures excellent performance in heavily loaded or shock-loaded gears and bearings where extreme pressure lubricant properties are required.

Unlike ester or glycol based synthetic fluids, it demonstrates good compatibility with mineral lubricants.

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#### Applications; Applications

Energyn EPX 320 has been formulated for use in all types of enclosed gears including heavy duty systems requiring an EP lubricant.

On exposure to light it will darken in colour but this does not affect its performance in any way.

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#### Main Benefits; Main Benefits

- Good oxidation stability leads to a longer service life.
- Very low pour point and very high viscosity index allows it to be used throughout an extremely wide operational temperature range (-30 °C to 120 °C).
- Good extreme pressure properties and load carrying characteristics means reduced wear even when gears are heavily loaded
- Very good air release properties.

- Its compatibility with mineral lubricants as well as the seals and paints used in mineral oil systems means problem-free replacement. Furthermore, no additional costs are incurred when replacing mineral based lubricants with Energyn EPX 320 compared to ester or glycol-based products.
- A low friction coefficient leads to reduced energy consumption which in turn reduces operating temperatures.

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#### Storage; Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration  
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of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.; of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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#### Health, Safety and Environment; Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with

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the product is used other than as directed, advice should be obtained from the local BP office.; BP Lubricants and Special Products Ltd. or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

### Typical Characteristics; Typical Characteristics

	Test Methods; Test Methods	Units; Units	Grade ; Grade :
			<b>Enersyn EPX 320</b>
Density at 15 °C	ISO 3675, ASTM D1298	kg/m <sup>3</sup>	859
Flash Point (PMC)	ISO 2719, ASTMD93	°C	203
Viscosity KV @ 40 °C	ISO 3104, ASTM D445	mm <sup>2</sup> /s	323
100 °C			34
Viscosity Index	ISO 2909, ASTM D2270		151
Pour Point	ISO 3016, ASTM D97	°C	-33
Copper Corrosion, 3h/100 °C	ISO 2160, ASTM D130		1b
Foam Tendency / Stability	ASTM D892	ml	
Sequence I : 24°C			0/0
Sequence II : 93°C			0/0
Sequence III : 24°C after			0/0
Sequence II			
Air Release at 50 °C	ASTM D3427	min	-
Corrosion - Rust protection	ISO 7210, ASTM D665A		no rust
Four Ball EP tests :	ASTM D2783, IP 239		
Welding Load		kg	280
Wear (1800 rpm, 20 kg, 1h)		mm	-
scar diameter			
Timken OK Load	IP 240	lb	80
FZG gear test :	DIN 51 354, IP 334		
A/8.3/90 °C		load stage	>12
A/16/6/120 °C		failure	>12

*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

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