



## Energol LPT

### Refrigeration compressor oil

#### Description; Description

The Energol LPT grades are refrigeration compressor lubricants formulated from highly refined naphthenic base

oils for use in both large industrial and small domestic refrigeration units.

#### Applications; Applications

The Energol LPT range is formulated to function as lubricants, coolants as well as sealants in refrigerating compressors. They maintain good lubrication properties at the high temperatures reached during the compression phase and good fluidity at the low temperatures within the evaporators. Excellent lubrication of the moving parts in the compressor as well as recycling of the oil, entrained into the system by the refrigerant, are therefore ensured.

The chemical stability of the Energol LPT oils prevents them from reacting with the refrigerants used in refrigeration systems to form potentially disruptive breakdown products. All Energol LPT grades are suitable for use in systems using Ammonia (NH<sub>3</sub>) or halogenated hydrocarbons. They can also be used where good low temperature flow properties are required in the lubricant.

#### Main Benefits; Main Benefits

The BP range of Energol LPT oils ensure long and trouble-free operation of refrigeration systems through a combination of:

- high thermal and chemical stability
- good temperature/viscosity behaviour
- good low temperature flow properties

#### 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.

#### 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 environmental effects and disposal of used products.; Health, safety and environmental

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.; BP

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## Typical Characteristics; Typical Characteristics

	Test Methods; Test Methods	Units; Units	Grade :: Grade :		
			32	46	68
Density at 15 °C	ISO 3675, ASTM D1298	kg/m <sup>3</sup>	892	896	900
Colour	ISO 2049 ASTM D1500		1.0	1.0	1.0
Flash Point (COC)	ISO 2592, ASTM D92	°C	170	180	185
Viscosity KV @ 40°C	ISO 3104	mm <sup>2</sup> /s	32	45	69
100°C	ASTM D445		4.9	6.0	7.4
Pour Point	ISO 3016, ASTM D97	°C	-51	-45	-42
Neutralisation value	ASTM D 974	mgKOH/g	0.01	0.01	0.01
Saponification number	ASTM D94	mgKOH/g	0.05	0.05	0.05
Flocculation point R12	DIN 51351	°C	<-50	<-50	<-50
Compatibility with R12 and R22	DIN 51593	h	>96	>96	>96
R12 Insolubles	DIN 51590/1	%m	0.01	0.01	0.01
Sulphur content	DIN 51400/6	%m	<0.1	<0.1	<0.1

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

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