Technical Data Sheet

bp marine

Enersyn LPS-PO Range

Synthetic Refrigeration Compressor Oil

Description

Enersyn LPS-PO series are high performance, low pour point, fully synthetic refrigeration compressor lubricants based on polyalpha-olefin technology.

Application

Enersyn LPS-PO series are designed for use in mini-rotary screw refrigeration compressors which require lubricants with wide operating temperature ranges. They can be used with all refrigerant gases except sulphur dioxide and R134A. Fully recommended by Stal Refrigeration for certain types of mini-rotary screw compressors and other equipment of their manufacture.

The full performance benefits of LPS-PO series will only be achieved after complete replenishment of the crankcase oil charge. Consequently, it is recommended that the system be completely drained and thoroughly flushed before being refilled with Enersyn LPS-PO.

Enersyn LPS-PO is not suitable for use in refrigeration systems using flooded evaporators since these products have low miscibility with refrigerant R22. They can, however be used in such applications if an efficient oil separator is used.

Main Performance Features

- Good thermal and chemical stability which gives long life under severe service conditions.
- Low-wear characteristics.
- Wax-free/low pour point.
- Wide operating temperature range.

Care and Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Packaging and 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 of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Typical Characteristics

	Unit	Test Method	Enersyn LPS-PO 32	Enersyn LPS-PO 68	Enersyn LPS-PO 220
Density at 15°C	kg/m^3	ASTM D1298	827	830	846
Kinematic Viscosity @ 40 °C	mm^2/s	ASTM D445	30	69.4	210
Viscosity index (extended)	-	ASTM D2270	132	150	150
Pour Point	°C	ASTM D97	< -60	-54	-40
Flash Point	°C	ASTM D92	230	238	218

The above figures are typical of those obtained with normal production tolerances, and do not constitute a specification. Note 1 $mm^2 s^{-1}$ = 1 cSt.

General Advice

Further information on all BP Marine lubricants is available from any BP Marine office or from:

BP Marine
Technology Centre
Whitchurch Hill
Pangbourne
Reading RG8 7QR
United Kingdom

www.bpmarine.com

bp marine