



Product Data

Enersyn MP-S Range

Synthetic refrigeration compressor lubricant

Description

Enersyn MP-S is a range of refrigeration compressor lubricants formulated with Polyolester (POE) synthetic basestocks.

Application

The Enersyn MP-S lubricants are primarily intended to lubricate refrigeration compressors where Hydrofluorocarbon (HFC) refrigerant e.g. R-134a is in use.

Enersyn MP-S is not suitable for systems running on ammonia.

Approval

Enersyn MP-S is approved by Bitzer, Bock and Carlyle/Carrier. Other refrigeration compressor manufacturers' approvals are in progress and MP-S conforms to the latest synthetic ester-based oil requirements of Sabroe for lubricant Codes E68 (MP-S 68), E100 (MP-S 100) & E220 (MP-S 220) and Stal Refrigeration.

Main Performance Features

- Miscible with R-134a, R404A, R407C, R410A and R507 refrigerants.
- Can be used with other refrigerants (refer to compressor manufacturers details).
- Good thermal oxidative stability.
- Provides wear protection.

Typical Characteristics

Name	Method	Units	Enersyn MP-S 32	Enersyn MP-S 46	Enersyn MP-S 68	Enersyn MP-S 100	Enersyn MP-S 170	Enersyn MP-S 220
ISO Grade			32	46	68	100	170	220
Density @ 15°C, Relative	ASTM D1298	g/ml	0.980	0.965	0.970	0.970	0.970	0.980
Viscosity @ 40°C	ASTM D445	mm ² /s	32	46	68	100	170	210
Viscosity @ 100°C	ASTM D445	mm ² /s	5.7	6.7	8.7	12	16	19
Flash Point, PMCC	ASTM D93	°C	210	210	210	220	220	220
Pour Point	ASTM D97	°C	-50	-50	-42	-30	-30	-30
Water Content	ASTM D1744	Ppm	<100	<100	<100	<100	<100	<100
Total Acid Number	ASTM D974	mgKOH/ g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Critical Solution Temp (10% oil in R134a)	-	°C	-50	-25	-35	-10	-25	-25

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

Packaging and Storage

Supplied in packs of 6 x 4 litre containers.

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.

Enersyn MP-S Range

04 May 2012

BP, the BP logo and related marks are trademarks of BP p.l.c., used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

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

www.bpmarine.com

