

# **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.

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	mm²/s	32	46	68	100	170	210
Viscosity @ 100°C	ASTM D445	mm²/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

### **Typical Characteristics**

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.

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