

Refrigeration oils - ABS 32, 46, 68

Description

The refrigeration oils of the Refrigeration Oil ABS series are fully synthetic based on alkylbenzenes. Because of a special additive system, extensive wear protection is achieved and reliable lubrication of highly-stressed compressors is insured. The special refrigerant characteristics permit use in low-temperature systems and in heat pumps and air conditioning systems.

Application

The Refrigeration Oil ABS series is suitable for the lubrication of coolant compressors with chlorofluorocarbons (CFC) according to DIN 51503 KC that are highly stressed thermally and chemically. Because of good miscibility with the refrigerants R22 and R502, the refrigerant oils of the Refrigeration Oil AB series are especially recommended for these coolants and as well for chlorine-containing transitional coolants ("drop in"), e.g. R401 and R402.

Note

Refrigeration Oil ABS is not suitable for use with ammonia.
Refer to the ABS-K series for this.

Advantages

- outstanding thermal and chemical stability under extreme operating conditions**
- good solubility and viscosity performance with CFC and HCFC refrigerants, e.g. R22 and R502**
- best suited for transitional refrigerants, e.g. R401A/B, R402A/B and similar R22 mixtures**
- high load-carrying capacity and favorable wear characteristics because of special additives**

The above information is supplied to the best of our knowledge and belief on the basis of the current state-of-the-art and our own development work. Subject to amendment.

Refrigeration oils

AB32, 46, 68

Typical Chemical and Physical Properties

Type designation		AB 32	AB 46	AB 68	
Properties	Unit				Test Method
Color index		2.0	2.5	2.5	DIN ISO 2049
Density at 15°C	kg/m ³	895	897	901	DIN 51 757
Kinematic viscosity at 40°C	mm ² /s	32	46	68	DIN 51 562-1
at 100°C	mm ² /s	4.8	5.8	7.4	
Pour point	°C	-42	-36	-36	DIN ISO 3016
Flow in U tube		-36	-31	-26	DIN 51 568
Flash point	°C	190	190	210	DIN ISO 2592
Water content	mg/kg	< 30	< 30	< 30	DIN 51 777-2

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