



REFRIGERATOR OIL

ADDINOL REFRIGERATOR OIL XKS 46, 68, 100

PRODUCT DESCRIPTION

ADDINOL Refrigerator oils XKS 46, 68 and 100 are fully-synthetic oils based on aromatic hydrocarbons.

APPLICATION

- Excellent suitability for
 - ammonia (R 717)
 - (H)FCKW coolants (R 22, R 402 A, R 402 B, R 409 A)
 - propane / butane
- Highly suitable for air conditioning, normal and low temperature range (limitations depend on construction of respective plant)
- Excellent suitability for various types of rotary screw compressors, reciprocating compressors and turbo compressors
- Usable for rotary compressors with rotating pistons
- Primarily used in industrial plants, cold storage depots, breweries, slaughterhouses and refrigeration ships
- Not suited for cooling agents based on R 134 A

SPECIFICATIONS/APPROVALS

Meet the requirements of:

- DIN 51503-1 for KAA, KC and KE
- ISO 6743-3 for DRA, DRC and DRG

Refrigerator Oil XKS 46 is approved by:

- **Company Bitzer for their refrigerating machines with piston compressors and coolant (H)FCKW and/or ammonia**

DELIVERY

Delivery preferable in drums and 20 l cans.

CHARACTERISTICS

- Low pour point and low flock point
- Excellent thermal and chemical stability
- Outstanding mixing behaviour with (H)FCKW coolants
- Good lubrication ability and heat conduction

ADVANTAGES AND BENEFITS

- Prevents paraffin separations
- Long lifetime of the lubricants
- No reaction with cooling agents
- Highest efficiency of the refrigerating compressors
- No malfunction





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		XKS 46	XKS 68	XKS 100	Method acc. to
ISO-VG			46	68	100	ISO 3448
Density	at 15°C	kg/m ³	869	869	869	DIN 51757
Viscosity	at 40°C	mm ² /s	45.6	66,9	94	ASTM D 7042
	at 100°C	mm ² /s	4.95	5,8	6.8	
Flash point	COC	°C min.	189	196	206	DIN EN ISO 2592
Pour point		°C max.	-43	-40	-36	ASTM D 7346
Flock point (R22)		°C	-57	-54	-50	DIN 51351
Neutralisation number		mg KOH/g	< 0.03			DIN 51558-1
Content of water		mg/kg	< 100			DIN EN ISO 12937

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The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.