

ULTRACHEM® R-AB SERIES

ALKYLBENZENE REFRIGERATION COMPRESSOR LUBRICANTS

PRODUCT CODES: R-AB 15, 32, 46, 68, 100

PRODUCT OVERVIEW

Ultrachem R-AB Series is a line of high-performance synthetic refrigeration compressor oils specially designed to meet the stringent requirements of most modern refrigeration and air conditioning systems from major equipment manufacturers. These oils are formulated from the highest quality alkybenzene base fluids and provide excellent protection against oxidation degradation, wear, and rust & corrosion.

This Ultrachem R-AB Series is formulated to provide excellent control of deposit & sludge formation resulting in extended oil drain intervals in comparison with conventional refrigeration fluids. It has high solvency & designed to maintain refrigerant cleanliness & efficiency. It has excellent high temperature & oxidation stability providing long service life even where high compressor discharge temperatures are found.

Ultrachem R-AB oils are specifically designed for refrigeration systems using non-hydrofluorocarbon refrigerants such as R-11, R-12, R-13B1, R-22, R-113, R-500, R-501, R-502, R-717 (Ammonia – NH3).

APPLICATION DETAIL

- Refrigeration Compressors
- Air Conditioning Compressors

KEY BENEFITS

- Excellent wear and rust protection resulting in reduced maintenance costs and longer equipment life
- Low pour point
- Superior thermo-oxidative stability controls deposits resulting in improved equipment reliability, availability and efficiency
- Avoids viscosity build up & reduced oil consumption
- Excellent chemical stability
- Optimum operating efficiency

QUICK POINTS...

Name: *ULTRACHEM R-AB SERIES*
 ISO Grade: *15 - 100*
 Base: *ALKYL BENZENE*
 Additive System: *R&O*
 Color: *PALE STRAW*
 Food Grade: *NO*
 Main Application: *REFRIGERATION*

TYPICAL CHARACTERISTICS**

PRODUCT DATA	ASTM METHOD	R-AB 15	R-AB 32	R-AB 46	R-AB 68	R-AB 100
ISO Grade	D2422	22	32	46	68	100
Viscosity, 40 °C	D445	16.0	32.0	43.0	60.0	92.0
Floc Point, °C/°F	D445	-65/-85	-65/-85	-60/-76	-55/-67	-55/-67
Flash Point, °C/°F	D92	130/266	175/347	185/365	185/365	170/338
Pour Point, °C/°F	D97	-40/-40	-40/-40	-35/31	-30/-22	-30/-22
Total Acid Number, mg KOH/g	D974	0.01	0.02	0.02	0.02	0.02
Moisture, ppm (low temp. miscibility, 10% oil, °C)	D1533	30	30	30	30	30
Dielectric, KV - Min	D877	40	40	40	40	40
Specific Gravity	D1298	-	-	-	0.87	0.87

**Characteristics are typical of production. Slight variations in the actual data may occur which will not affect performance.

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SPECIFICATIONS

- Meets the requirements of DIN 51503 KAA & KC

COMPATIBILITY NOTES

- Not compatible with mineral oils and most other hydrocarbons
- Compatible with most process gases
- Compatible with most common seal materials, plastics, and paints
- Not compatible with polyalkylene glycol (PAG) lubricants

SHELF LIFE

- Standard shelf life of (5) years from DOM applies to this product
- Shelf life may be extended and/or recertified upon individual case – please contact your Ultrachem, Inc. representative

HEALTH & REGULATORY STATEMENTS

- Classified as non-hazardous per OSHA GHS
- TSE/BSE compliant: product does not contain any materials of animal origin or derivatives
- FALCPA compliant: product does not contain any allergens
- RoHS compliant: product does not contain any EU RoHS substances
- REACH compliant: product does not contain any SVHC substances
- Guidelines on safety and storage may be found on the associated Safety Data Sheet (SDS@ultracheminc.com)

PACKAGING & SHIPPING AVAILABILITY

- 5 gallon pail (18.9 L)
- 55 gallon drum (208.2 L)

Please contact your Ultrachem, Inc. representative for detailed information not covered in this data sheet.



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We therefore recommend you consult a FUCHS Lubricants Co. Application Engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our Product Information sheets at any time and without warning. With the publication of this Product Information sheet, all previous editions cease to be valid.

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