

Lunaria SH 46 - 68

Full-synthetic PAO based oil for ammonia (R 717)
refrigerating compressors

APPLICATIONS

- Lubrication of refrigerating compressors (reciprocating and screw) using ammonia as a refrigerant.
- PAO (polyalphaolefin) base oils to improve oil drain interval and ensure good
- performances even at very low temperature. Field of application: evaporator temperature down to -50°C.

SPECIFICATIONS

- Conform with the following specifications: ISO 6743-3 DRA et DIN 51503 KA
- NSF-H1 registered certificate number: 139826: Lunaria SH 46
139827: Lunaria SH 68

ADVANTAGES

- High resistance to oxidation in the presence of ammonia. Synthetic base oils and additivition system specially selected to avoid the formation of black sludges (reaction between oil and ammonia).
- Low pour point, eliminating the risk of any residual lubricant freezing in the evaporator, thereby providing excellent heat exchange.
- Very high flash point given the low volatility of Lunaria SH oils: oil consumption is reduced by 30 to 50 % compared with conventional oils.
- Warning: storage must be done in order to avoid the presence of water within the oil. Indeed, water could block the evaporator.

APPROVALS

Suitable for the refrigerating compressors of the constructors below: APV, BOCK, J&E HALL, GRAM, GRASSO, HOWDEN, SABROE...

For additional information, contact your local Totalenergies Lubricants representative or visit our web site: <https://lubricants.totalenergies.com>

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or downloaded from <https://sdstotalms.total.com>

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Lunaria SH	
			46	68
Density at 15°C	kg/m ³	ISO 3675	850	835
Viscosity at 40°C	mm ² /s	ISO 3104	46	68
Viscosity at 100°C	mm ² /s	ISO 3104	7.8	10.7
Pour point	°C	ISO 3016	-60	-55
Flash point OC	°C	ISO 2592	268	278
Foaming test sequence 1 (tendency / stability)	ml/ml	ASTM D 892	0/0	0/0
Severe oxidation test (72 h at 150 °C – NH3/air)				
- Increase in viscosity	%	IP 280 modified	+0.7	+1.1
- Insolubles in heptane, filter 0.8µm	mg		10.0	7.0
Dynamic viscosity at -12°C	mPa.s	NFT 60-152	940	1200
NOACK volatility (1 hour, 250°C)	%	ASTM D 5800	3.0	2.5
Compatibility with elastomers				
- Chloroprene, volume variation	%	NF ISO 6072	-1.8	-2.0
- NBR, volume variation	%		-5.0	-5.5

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