## LUNARIA SH 46 - 68





Compressor



Full-synthetic PAO bas	sed oil for ammonia (R	R 717) refrigerati	ng compresso	ors.	
APPLICATIONS	]				
Refrigerating compressors using ammonia as a refrigerant	<ul> <li>Lubrication of refrigerating compressors (reciprocating and screw) using ammonia as a refrigerant.</li> <li>PAO (polyalphaolefin) base oils to improve oil drain interval and ensure good performances even at very low temperature.</li> <li>Field of application : evaporator temperature down to -50°C.</li> </ul>				
SPECIFICATIONS					
OEM approvals/ references	<ul> <li>APV, BOCK, J&amp;E HALL, GRAM, GRASSO, HOWDEN, SABROE.</li> <li>NSF-H1 registered certificate number: 139826: LUNARIA SH 46 139827: LUNARIA SH 68</li> </ul>				
ADVANTAGES					
Cleanliness and high performances of the compressor : Efficiency of the heat exchangers : Operation cost cutting : Storage :	<ul> <li>High resistance to oxidation in the presence of ammonia. Synthetic base oils and additivation system specillay selected to avoid the formation of black sludges (reaction between oil and ammonia).</li> <li>Low pour point, eliminating the risk of any residual lubricant freezing in the evaporator, thereby providing excellent heat exchange.</li> <li>Very high flash point given the low volatility of LUNARIA SH oils: oil consumption is reduced by 30 to 50 % compared with conventional oils.</li> <li>Good compatibility with common elastomers (chloroprene, NBR).</li> <li>Warning: storage must be done in order to avoid the presence of water within the oil.</li> </ul>				
	Indeed, water could	1		LUNARIA SH	
TYPICAL CHARACTERISTICS		METHODS	UNITS	46	68
Density at 15 °C		ISO 3675	kg/m <sup>3</sup>	830	835
Viscosity at 40°C		ISO 3104	mm²/s	46	68
Viscosity at 100°C		ISO 3104	mm²/s	7.8	10.7
Pour Point		ISO 3016	°C	- 60	- 57
Flash point OC		ISO 2592	°C	268	278
Foaming test sequence 1 (tendancy / stability) Severe oxidation test (72 h at 150 °C – NH3/air)		ASTM D 892 IP 280 modified	mL / mL	0/0	0/0
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1	0/	0 7	1 4 4

Increase in viscosity
 Insolubles in heptane, filter 0.8µm
 Dynamic viscosity at -12 °C
 NOACK volatility (1 hour, 250°C)
 Compatibility with elastomers
 chloroprene, volume variation
 NBR, volume variation

Above characteristics are mean values given as an information.

## TOTAL LUBRIFIANTS

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+ 0.7

10.0

940

3.0

- 1.8

- 5.0

+ 1.1

7.0

1200

2.5

- 2.0

- 5.5

%

mg

mPa.s

%

%

%

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 down loaded from www.quick-fds .com.