

LUNARIA NH 46 - 68



Compressor



Additive enhanced hydrocracked mineral oil for ammonia (R 717) refrigerating compressors.

APPLICATIONS

Refrigerating compressors using ammonia as a refrigerant

- Lubrication of refrigerating compressors (reciprocating and screw) using ammonia as a refrigerant.
- Hydrocracked technology of base oils to improve oil drain interval.
- Field of application : evaporator temperature down to -30°C.

SPECIFICATIONS

OEM approvals/ references

- APV, BOCK, J&E HALL, GRAM, GRASSO, HOWDEN, SABROE.

ADVANTAGES

Cleanliness and high performances of the compressor :
Efficiency of the heat exchangers :
Operation cost cutting :

- High resistance to oxidation in the presence of ammonia. Base oils and additivation 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 NH oils : oil consumption is reduced by 30 to 50 % compared with conventional oils.
- Good compatibility with common elastomers (chloroprene, NBR....).
- Warning : storage must be done in order to avoid the presence of water within the oil. Indeed, water could block the evaporator.

Storage :

TYPICAL CHARACTERISTICS	METHODS	UNITS	LUNARIA NH	
			46	68
Density at 15 °C	ISO 3675	kg/m ³	850	860
Viscosity at 40°C	ISO 3104	mm ² /s	46	68
Viscosity at 100°C	ISO 3104	mm ² /s	7.3	9.2
Pour Point	ISO 3016	°C	- 36	- 36
Flash point OC	ISO 2592	°C	246	256
Foaming test sequence 1 (tendency / stability)	ASTM D 892	mL / mL	0/0	0/0
Severe oxidation test (72 h at 150 °C – NH3/air)	IP 280 modified			
- Increase in viscosity		%	+ 1.3	+ 3.8
- Insolubles in heptane, filter 0.8µm		mg	18.6	19.6
Dynamic viscosity at -12 °C	NFT 60-152	mPa.s	1095	2100
NOACK volatility (1 hour, 250°C)	ASTM D 5800	%	7	4.5
Compatibility with elastomers	NF ISO 6072			
- chloroprene, volume variation		%	5.5	2.0
- NBR, volume variation		%	-4.5	-4.5

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS
INDUSTRIE**

01-02-2019 (supersedes 28-06-2007)

LUNARIA NH 46-68

1/1



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.