

# LUNARIA NH 46 - 68



Compressor



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

## APPLICATIONS

Refrigerating compressors using ammonia as refrigerant

- Lubrication of cylinders, bearing and seals of all types of reciprocating type refrigerating compressors.
- Lubrication of rotary screw compressors.
- Field of application : evaporator temperature down to -30°C.

**WARNING :** LUNARIA NH oils must not be introduced in compressors using halogenated refrigerating fluids (Forane-Freon).

## SPECIFICATIONS

OEM approvals/  
references

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

## ADVANTAGES

Cleanliness and high performances of the compressor

- High resistance to oxidation in the presence of ammonia. Suitable for use in critical conditions (compressors and circuits that are not air-tight). In such unfavourable service conditions, conventional naphthenic oils or aromatic naphthenic oils such as WAX FREE, may deteriorate, causing the oil to blacken and giving rise to deposits and sludge.

Efficiency of the heat exchangers

- Low pour point, eliminating the risk of any residual lubricant freezing in the evaporator, thereby providing excellent heat exchange.

Operation cost cutting

- Very high flash point given the low volatility of LUNARIA NH oils : oil consumption is reduced by 30 to 50 % compared with conventional oils.

TYPICAL CHARACTERISTICS	METHODS	UNITS	LUNARIA NH	
			46	68
Density at 15 °C	ISO 3675	kg/m <sup>3</sup>	874	888
Viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	46	68
Viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	6.4	7.9
Pour Point	ISO 3016	°C	- 36	- 36
Flash point OC	ISO 2592	°C	226	230
U-tube fluidity	DIN 51568	°C	- 32	- 28
Severe oxidation test (90 h at 175 °C – NH3/air)	Apparatus			
- Increase in viscosity	IP 280 modified	mm <sup>2</sup> /s	+ 12.9	+ 20.1
- Plates (deposits)		rating	0 +	0 +
- Tube (deposits)		rating	1 +	1 +

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS  
Industrie & Spécialités  
18-10-2004 (supersedes 08-10-2001)  
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](http://www.quick-fds.com).