

# Lunaria NH 46 - 68

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

## APPLICATIONS

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

## ADVANTAGES

- High chemical stability with refrigerants.
- Absence of copper plating.
- Very good miscibility behaviour with refrigerants allowing a good oil return to the compressor (evaporator temperature higher than - 15 °C).

## SPECIFICATIONS

- Conform with the following specifications: ISO 6743-3 DRA et DIN 51503 KA

## 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 NH	
			46	68
Density at 15°C	kg/m <sup>3</sup>	ISO 3675	850	860
Viscosity at 40°C	mm <sup>2</sup> /s	ISO 3104	46	68
Viscosity at 100°C	mm <sup>2</sup> /s	ISO 3104	7.3	9.2
Pour point	°C	ISO 3016	-36	-32
Flash point	°C	ISO 2592	246	256
Foaming test sequence 1 (tendency / stability)	ml/ml	ASTM D 892	0/0	0/0
Severe oxidation test (72 h at 150 °C – NH <sub>3</sub> /air)				
- Increase in viscosity	%	IP 280 modified	+1.3	+3.3
- Insolubles in heptane, filter 0.8µm	mg		18.6	19.6
Dynamic viscosity at -12°C	mPa.s	NFT 60-152	1095	2100
NOACK volatility (1 hour, 250°C)	%	ASTM D 5800	7	4.5
Compatibility with elastomers				
- Chloroprene, volume variation	%	NF ISO 6072	5.5	2.0
- NBR, volume variation	%		-4.5	-4.5

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