

# LUNARIA FR 32 - 46 - 68 - 100



Compressor

Wax free naphthenic mineral oils for refrigerating compressors.

## APPLICATIONS

Refrigerating compressors using CFC, HCFC or NH<sub>3</sub> as refrigerant

- Lubrication of cylinders, bearing and seals of refrigerating compressors.
- The **LUNARIA FR** are compatible with most of chlorofluorinated refrigerant gases and with ammonia in compatible service conditions : evaporator temperature higher than - 15 °C (\*).

(\* ) In fact, for refrigerating applications with low temperature ammonia, it is recommended to use the specific lubricants **LUNARIA NH** or **LUNARIA SH**.

## SPECIFICATIONS

International standards  
OEM approvals/references

- ISO 6743 : DRA
- APV, BOCK, BITZER, GRAM, CARRIER, GRASSO, HOWDEN, J&E HALL, SABROE, YORK, LINDE.

## ADVANTAGES

Compressor safety

- High chemical stability with refrigerants.
- Absence of copper plating.

Wide operating conditions

- Very good miscibility behaviour with refrigerants allowing a good oil return to the compressor (evaporator temperature higher than - 15 °C).

TYPICAL CHARACTERISTICS	METHODS	UNITS	LUNARIA FR			
			32	46	68	100
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	898	899	900	900
Viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	32	46	68	100
Viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	4.5	5.6	7.0	8.8
Pour point	ISO 3016	°C	- 42	- 39	- 33	- 30
Flash point (open cup)	ISO 2592	°C	185	200	205	220

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS  
Industrie & Spécialités  
23-11-2011 (supersedes 16-06-2008)  
LUNARIA FR 32-46-68-100  
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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).