Technical Data Sheet
Revision Date: 08.11.2024

PETRONAS FRIGOR M SERIES

High quality naphthenic refrigeration fluids

PETRONAS FRIGOR M Series are high quality refrigeration fluids, designed to lubricate all types of refrigeration systems using HCFC and CFC refrigerants (e.g. R22, R502, R12), ammonia (R717) and HC (e.g. R600a, R290).
Formulated with highly refined naphthenic oil, PETRONAS FRIGOR M fluids provide excellent performance at low temperatures due to their low pour point and wax content. Their excellent high temperature and oxidation stability allow for minimum deposits formation and maximum oil service life.

Applications

PETRONAS FRIGOR M Series fluids are recommended for use in:

- consumer and commercial refrigeration
- systems charged with HCFC, CFC, HC, Ammonia refrigerants
- open, semi-hermetic and hermetic compressors

Features and Benefits

Features	Benefits
High thermal and chemical stability	Minimal deposits formation and extended fluid life and maintenance intervals.
Low wax content	Reducing the risk of breakdowns at low temperatures.
Low pour point	Maximizing flow for better heat transfer resulting in increased system efficiency.
Proven technology	Widely used by leading compressor manufacturers for refrigeration systems, guaranteeing excellent performance in all applications for which PETRONAS FRIGOR M is suitable.

Typical Properties

Data	Method	M 3	M 4
Density @ 15°C, g/cm^3	ASTM D 4052	0,905	0,905
Viscosity @ 40°C, cSt	ASTM D 445	32,54	56,00
Viscosity @ 100°C, cSt	ASTM D 445	4,5	6,3
Flash Point, °C / ºF	ASTM D 93	176 / 349	193 / 379
Pour Point, °C / ºF	ASTM D 97	-45 / -49	-37 / -35
Floc Point, °C / ºF	ASHRAE 86	-54 / -65	-48 / -54
TAN, mgKOH/g	ASTM D 974	<0,01	<0,01

All technical data are provided for reference only. SS is available upon request, including quality control limits

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Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: www.pli-petronas.com.

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