

# PETRONAS COMPRESSOR R SYN FG SERIES

## Supreme Performance (PAO) Industrial Refrigeration Compressor Oil

PETRONAS Compressor R SYN FG Series are supreme performance compressor oils specially developed for use refrigeration compressors using ammonia or process gas in food processing plants where there is chance of incidental food contact with the oil.

Formulated with high viscosity index Polyalphaolefin (PAO) synthetic base oils enhanced with advanced pour point depressant, anti-oxidant, anti-rust and anti-foam additives, PETRONAS Compressor R SYN FG oils provide excellent varnish and deposits control, very low pour point and excellent thermal and oxidation stability for up to 3x longer lasting performance vs conventional mineral refrigeration compressor oils.

PETRONAS Compressor R SYN FG Series meets or exceeds key industrial specifications.

### Applications

PETRONAS Compressor R SYN FG Series are recommended for use in:

- ammonia compressors with evaporator temperatures as low as -39°C or applications where food grade products are necessary
- process gas rotary screw and reciprocating compressors

Note: PETRONAS Compressor R SYN FG Series are compatible with mineral compressor oils.

### Features and Benefits

Features	Benefits
Food grade	Can be used in food processing facilities
Excellent varnish and deposits control	Maintains excellent internal surface cleanliness, controls varnish formation providing longer equipment life
Excellent thermal and oxidation stability	Maintains performance levels under high temperatures and pressure, enabling long oil drain intervals
Very low pour point	Avoids deposits formation in the evaporator
Excellent Low Volatility	Reduces maintenance and oil consumption
Excellent rust & corrosion protection	Inhibits the corrosion process that occurs in presence of water, improving equipment life
Very good anti-wear protection	Protects equipment components from excessive wear and provides longer equipment life
High air release and foam stability	Maintains excellent efficiency in compressors and ensures smooth operation of the system thanks to fast air release. Protects the system from air degenerative effects reducing maintenance costs
Excellent water separability	Due to excellent water separability the system is protected from water degenerative effects, maintaining system efficiency at required level and reducing maintenance costs

# PETRONAS COMPRESSOR R SYN FG SERIES

## Supreme Performance (PAO) Industrial Refrigeration Compressor Oil

Features	Benefits
High multi metal compatibility	Compatible with most metal alloys ensuring trouble free performance of the system
High compatibility with most seal and elastomers	Compatible with most seals and elastomers, which prevents oil leaks and contamination due to seal erosion

### Typical Properties

Characteristic	Method	Specification	68
Specific Gravity @ 15 °C	ASTM D4052	(1)	0,844
Kinematic Viscosity at 40°C, cSt	ASTM D445	(1)	68
Kinematic Viscosity at 100°C, cSt	ASTM D445	(1)	10,2
Viscosity Index, min	ASTM D2270	(1)	135
Flash Point	ASTM D92	(1)	268
Pour Point, max °C	ASTM D97	(1)	-54

All technical data is provided for reference only / (1): not required in specification / SS is available upon request including quality control limits

### Performance Levels

- ISO 6743-3: DRA

# PETRONAS COMPRESSOR R SYN FG SERIES

## Supreme Performance (PAO) Industrial Refrigeration Compressor Oil

### 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](http://www.pli-petronas.com)

### Important Note

The word PETRONAS, the PETRONAS logo and such other related trademarks and/or marks used herein are trademarks or registered trademarks of PETRONAS Lubricants International Sdn. Bhd. ("PLISB"), or its subsidiaries or related Holding Corporation under license unless indicated otherwise. The PLI Documents and the information contained herein is believed to be accurate as of the date of printing. PLISB makes no express or implied representation or warranties as to its accuracy or completeness or information in or any transaction performed. The PLI Documents information provided is based on standard tests under laboratory conditions and is given only as a guide. Users are advised to ensure that they refer to the latest version of these PLI Documents. It is the responsibility of the users to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations imposed by the respective local authorities.

Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either PLISB or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortious action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.