

Technical Data Sheet

Revision Date: 28.07.2020

PETRONAS COMPRESSOR A SYN PAO SERIES

Supreme Performance (PAO) Industrial Air Compressor Oil

PETRONAS Compressor A SYN PAO Series are supreme performance air compressor oils specially developed for up to 8,000 hours oil life in service, even when operating at maximum discharge temperatures up to 120°C.

Formulated with high viscosity index Polyalphaolefin (PAO) synthetic base oils enhanced with advanced anti-oxidant, anti-wear (zinc-free), anti-rust and anti-foam additives, PETRONAS Compressor A SYN PAO oils provide excellent varnish and deposits control, excellent thermal and oxidation stability for long lasting performance.

PETRONAS Compressor A SYN PAO Series meets or exceeds key industrial specifications.

Applications

PETRONAS Compressor A SYN PAO Series are recommended for use in:

- flooded rotary screw compressors
- liquid ring vacuum pumps

Note: PETRONAS Compressor A SYN PAO Series are compatible with mineral compressor oils.

Features and Benefits

Features	Benefits
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
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 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
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

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Typical Properties

Characteristic	Method	Specification	32	46	68
Specific Gravity @15°C	ASTM D4052	(1)	0,837	0,865	0,847
Kinematic Viscosity at 40°C, cSt	ASTM D445	(1)	32	46	68
Kinematic Viscosity at 100°C, cSt	ASTM D445	(1)	6,0	7,8	10,6
Viscosity Index, min	ASTM D2270	(1)	136	139	144
Flash Point	ASTM D92	(1)	244	268	268
Pour Point, max °C	ASTM D97	(1)	-58	-55	-52
TAN, mgKOH/g	ASTM D664	(1)	0,10	0,10	0,10
Noack Volatility, % Loss	ASTM D972	(1)	5,0	3,1	2,4
Rust Test, A - Distilled Water	ASTM D665	(1)	Pass	Pass	Pass
Air Release @50°C, mins.	ASTM D 3427	(1)	0,7	0,7	3,3
RPVOT, mins	ASTM D2272	(1)	4000	4000	4000
Characteristic	Method	Specification	100	150	
Density @ 15 °C, kg/m ³	ASTM D4052	(1)	0,840	0,856	
Kinematic Viscosity at 40°C, cSt	ASTM D445	(1)	100	150	
Kinematic Viscosity at 100°C, cSt	ASTM D445	(1)	14	19	
Viscosity Index, min	ASTM D2270	(1)	142	144	
Flash Point	ASTM D92	(1)	271	271	
Pour Point, max °C	ASTM D97	(1)	-46	-43	
TAN, mgKOH/g	ASTM D664	(1)	0,10	0,10	
Noack Volatility, % Loss	ASTM D972	(1)	2,1	1,8	
Rust Test, A - Distilled Water	ASTM D665	(1)	Pass	Pass	
Air Release @75°C, mins.	ASTM D 3427	(1)	3,7	4,3	
RPVOT, mins	ASTM D2272	(1)	4000	4000	

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

Performance Levels

- ISO 6743-3: DAB and DAJ

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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.

Important Note

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