

# PURShield™

**CUT THE COST, NOT THE QUALITY.**

*"YOU CAN TAKE IT TO THE LAB."*

## FULL SYNTHETIC AIR COMPRESSOR LUBRICANT

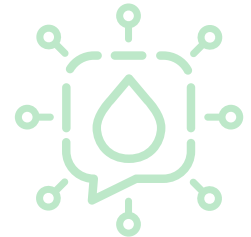


## FOOD GRADE NSF H-1 PAO



### DESCRIPTION

**PURUS® PURShield™ Full Synthetic Air Compressor Food Grade ISO 46** is a fully formulated polyalphaolefin (PAO) based high performance compressor lubricant formulated for long life and minimal sludge and varnish formation. Its primary use is in rotary screw air compression applications. This product is an ashless formulation with advanced additive system to prevent corrosion of the compressor and key system components while inhibiting oxidation of the base fluid. The product displays excellent thermal, oxidative, and hydrolytic stability in applications that require extended drain intervals and performance. PURSHIELD Compressor Lubricant is completely demulsible, has a low pour point and stable viscosity to increase effectiveness in applications where high and low temperature extremes are encountered. The PAO/Poly Ester is formulated to meet 21 CFR 178.3570 incidental food contact requirements. NSF H1, Kosher and Halal certified.



### PERFORMANCE BENEFITS

**PURUS® PURShield™ Full Synthetic Air Compressor Food Grade ISO 46** is blended with selected premium quality base oils and additives to provide these essential features and benefits:

#### FEATURES:

- Low Sludge and Varnish Formation
- Extremely low water content
- Ashless formulation
- High viscosity index and low pour point
- Rust and corrosion protection
- Excellent thermal and oxidative stability
- Completely demulsible

#### BENEFITS:

- Improved system cleanliness with minimal solid formation
- Better cooler efficiency
- Maximum bearing, cooler, and equipment life; minimizing maintenance costs and downtime
- Better oil flow and less wear at start up
- Wide operating temperature range
- Minimal vapor phase oil carryover to downstream equipment
- Longer oil and filter life

## FULL SYNTHETIC AIR COMPRESSOR LUBRICANT



## FOOD GRADE NSF H-1 PAO

### APPLICATIONS

#### RECOMMENDED APPLICATIONS:

- Rotary screw air compressors
- Centrifugal compressors

### TYPICAL PROPERTIES\*

#### TEST METHOD

#### ISO GRADE 46

Viscosity at 40° C, cST	ASTM D445	42.3
Viscosity at 100° C, cST	ASTM D445	7.4
Viscosity Index	ASTM D2270	139
Moisture, ppm	ASTM D1744	< 75
Specific Gravity at 60°F/15.6° C	ASTM D4052	0.841
Density, lb/gal	ASTM D4052	7.01
Flash Point °C (F)	ASTM D92	504/262
Pour Point °C (F)	ASTM D97	-44/-42
Foam Testing	ASTM D892	
Seq. I, tendency/stability, ml/ml		5/0
Seq. II, tendency/stability, ml/ml		10/0
Seq. III, tendency/stability, ml/ml		5/0
RPVOT, minutes	ASTM D2722	2609
PDSC, 500 psig O <sub>2</sub> @ 180°C, minutes		135

\*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all of our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either AIOD or its affiliates for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult your local AIOD Distributor if you require any further information.

PRODUCT	5 GAL PAIL	55 GAL DRUM	275 GAL TOTE	330 GAL TOTE
Air Comp. Lubricant - Food Grade	PPS27363	PPS17363	PPS57363	PPS77363