



AMSAIR-PLUS



SYNTHETIC ROTARY COMPRESSOR OIL

Data Sheet

AMSOIL Industrial **AMSAIR-PLUS** is a PAO-based lubricant engineered to maintain exceptional cleanliness, fight oil consumption and provide extended service intervals in rotary screw compressors.

Product Benefits

- Up to **16,000-hour drain intervals** at 200°F discharge.
- Resists oxidation to inhibit sludge, carbon and varnish deposits.
- Excellent air release helps dissipate heat and improve efficiency.
- Inhibits foam to reduce oil consumption and minimize top-offs.
- Outstanding anti-wear protection helps extend equipment life.
- High demulsibility helps protect against rust and corrosion.

Applications*

Use AMSOIL Industrial **AMSAIR-PLUS** in rotary screw compressors and single-stage vacuum pumps. Oil life is dependent on operating conditions and maintenance practices – regular oil analysis is recommended. Polycarbonate plastic bowls should be metal-covered. Consult an AMSOIL Industrial Application Engineer to identify the best solutions for your specific applications.

Not recommended for refrigeration compressors. **Not compatible** with synthetic silicone or polyalkylene glycol (PAG) fluids, including Sullair 24kt, Sullube 32 and Ingersoll-Rand SSR Ultra Coolant.

Varnish Resistance

Varnish-related mechanical breakdowns reduce operational efficiency and can be a major problem in rotary screw compressors, especially in high-heat applications.

The Membrane Patch Colorimetry test (ASTM D7843) identifies a lubricant's varnish potential. The lubricant is filtered through a patch and the resulting color is measured against a control patch. The darker the patch, the higher the potential for damaging varnish.

Under controlled test conditions, **AMSAIR-PLUS 46** exhibited superior resistance to varnish after extended service of 16,000 hours, while a leading competitor's synthetic ISO 46 compressor oil showed critical varnish potential after only 6,228 hours of service.

AMSAIR-PLUS 46
Synthetic Rotary Compressor Oil
16,000 Hours @ 200°F



Low varnish potential

Leading Competitor Synthetic
ISO 46 Rotary Compressor Oil
6,228 Hours @ 200°F



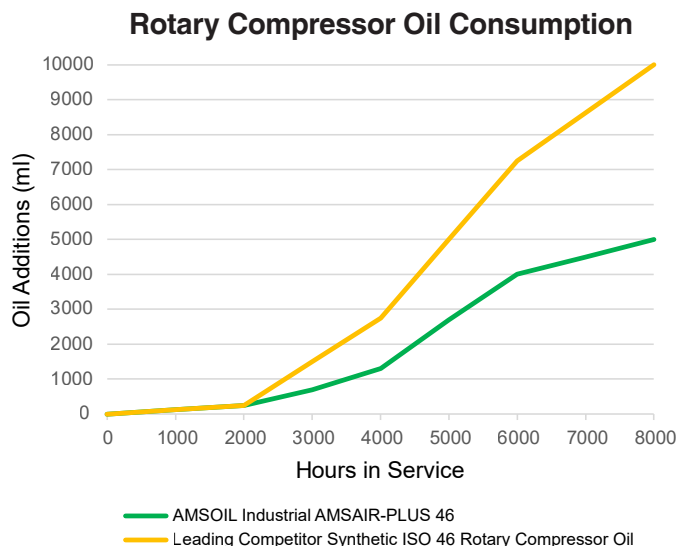
Critical varnish potential

Reduced Oil Consumption

Excessive oil consumption wastes time and money by requiring frequent top-offs to keep compressors protected.

AMSOIL Industrial **AMSAIR-PLUS 46** provides excellent foam resistance and air-release properties that are proven in field testing to help reduce oil consumption, which lowers maintenance costs and provides peace of mind that compressors remain protected.

After 8,000 hours in service, AMSAIR-PLUS required 50% less top-off oil than the leading competitor's synthetic compressor oil.



Typical Technical Properties**

AMSOIL Industrial **AMSAIR-PLUS** Synthetic Rotary Compressor Oil

Test	Method	ISO 32	ISO 46	ISO 68
Product Code	—	CAO32AA	CAO46AA	CAO68AA
ISO Viscosity Grade	ASTM D2422	32	46	68
Kinematic Viscosity, 100°C, cSt	ASTM D445	6.2	7.5	11.0
Kinematic Viscosity, 40°C, cSt	ASTM D445	32.8	43.8	67.4
Viscosity Index	ASTM D2270	138	137	154
Flash Point, °C (°F)	ASTM D92	256 (492)	268 (514)	264 (507)
Fire Point, °C (°F)	ASTM D92	278 (532)	286 (547)	296 (565)
Pour Point, °C (°F)	ASTM D97	-54 (-65)	-55 (-67)	-51 (-60)
Four-Ball Wear, scar, mm 75°C, 1200 rpm, 40 kg, 1 hr	ASTM D4172	0.50	0.49	0.48
Demulsibility	ASTM D1401	40-40-0 (20)	40-40-0 (20)	40-40-0 (20)
Foam Characteristics, ml, seq. I, II, III	ASTM D892	0/0, 0/0, 0/0	0/0, 0/0, 0/0	10/0, 10/0, 10/0
Copper Corrosion, 100°C, 3 hr	ASTM D130	1A	1A	1A

Health & Safety Information

For recommendations on safe handling and use, refer to the Safety Data Sheet (SDS) available at AMSOILIndustrial.com or upon request at IndustrialSalesGroup@amsoil.com or (715) 399-6305.

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***Technical properties are general characteristics of the product and not manufacturing specifications. Variations that do not affect product performance should be expected. Product formulations are subject to change without notice. Customers are responsible for determining product suitability for use with their equipment.*