



## Airtop Superior 100

### Polyalphaolefin (PAO) Air Compressor Lubricants

#### **Description**

Airtop Superior is a combination of high grade synthetic PAO and ester base fluids and specially engineered additive systems. They are used successfully for the long term lubrication of screw, centrifugal or reciprocating (piston type) air compressors. These 100% premium synthetic oils are used where maximum seal, paint, and plastic compatibility is required. Airtop Superior 32, Superior 46 and Superior 68 are designed for rotary screw and centrifugal air compressors and will offer a typical service life of up to 8,000 hours and more under normal industrial operating conditions. Airtop Superior 100, Superior 150 and Superior 220 are designed for rotary vane and reciprocating compressors.

#### **Benefits**

Airtop Superior offers high performance protection of compressors in extreme conditions: high load and temperatures, compressing reactive and dirty gases, intermittent operation, in warm or cold climates and in mobile applications.

#### **Applications**

Airtop Superior has a multitude of advantages over mineral oils and other synthetic oils:

- Reduced compressor maintenance with very long drain intervals. Up to 8 times the service life of mineral oils.
- Low friction properties and resistance to viscosity increase from oxidation. This helps improve operating efficiency and saves money on energy consumption.
- Excellent foam control, reducing heat, oxidation and wear. High contact regions are protected against wear for increased compressor life and efficiency.

- Enhanced water separation. Water from condensation can cause unwanted oil/water formation, readily separates from water and is anti-rust fortified. Water can be easily drained off for simplified environmental discharge and increased oil life.
  - Increased resistance to varnish, carbon and acid formation. Providing better protection and longer service life than petroleum oils, especially during hot operating conditions.
  - Low volatility, resulting in lower evaporation losses and fewer problems with the oil getting into air tools, instruments or even the production process. It also means there is less oil to remove in the air/oil separators and fewer air filter changes.
  - Fire and explosion possibilities are greatly reduced due to the low carbon forming tendencies and due to the relatively high flash, fire and auto ignition points.
  - Operating temperature reduction.
  - High viscosity index. This results in a minimum change in viscosity with temperature. The adequate viscosity for proper lubrication is provided regardless of temperature change.
  - Excellent cold temperature starting and pumpability.
  - Good compatibility with all types of seals and coatings.
- These benefits mean for the user of Airtop Superior higher reliability and lower operational costs. The reliability is also supported by our own oil analysis subjected to aggressive or corrosive conditions, geared for lubrication of all plastic and rubber components thanks to its superior compatibility with these materials.

#### **Specifications**

DIN 51506 VDL

All performance data on this Technical Data Sheet are indicative only and can vary during production

**Matrix Specialty Lubricants BV - [info@matrix-lubricants.com](mailto:info@matrix-lubricants.com) - [www.matrix-lubricants.com](http://www.matrix-lubricants.com)**



## Typical performance data

Property	Test Method	100
ISO Viscosity Grade	ASTM D-2422	100
Viscosity index, min	ASTM D-2270	140
Viscosity @ 40°C, cSt	ASTM D-445	100
Viscosity @ 100°C, cSt	ASTM D-445	14
Flash point, °C, min	ASTM D-92	230
Pour point, °C, max	ASTM D-97	-30
Copper strip corrosion, 24 hrs @ 100 °C	ASTM D-130	1a
Demulsibility @ 54 °C,	ASTM D-1401	excellent
Density @ 15 °C, kg/l	ASTM D-1298	0.88
FZG		>12

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**Matrix Specialty Lubricants BV - [info@matrix-lubricants.com](mailto:info@matrix-lubricants.com) – [www.matrix-lubricants.com](http://www.matrix-lubricants.com)**