



## **CompSYN 46**

Product code s4886, March 2011

CompSYN is a full synthetic Ashless, non detergent Compressor Oil fluid uniquely formulated from PAO/Ester base fluids for use in a wide range of applications including oil flooded rotary vane and rotary screw compressors, screw type compressors and reciprocating air compressors, pumps, refrigeration and vacuum pumps operating under both normal & severe conditions.

CompSYN is recommended as a direct replacement for PAG compressor oils such as Sullair Sullube® and Ingersoll-Rand® fluids and offers;

- \* **Excellent Resistance to Thermal Degradation** – Carbon, varnish and lacquer deposits due to high temperature operation are virtually eliminated.
- \* **Superior Oxidative Stability** – Any oil, as it is increasingly exposed to high temperature operation, undergoes the process of oxidation. This results in the oil's thickening and build-up of acidic components. Because of the PAO's uniform molecular structure, the process of oxidation is greatly reduced.
- \* **Extended Drain Intervals** – Because of the PAO's excellent resistance to thermal degradation and oxidation, the oil's service life is extended up to eight (8) times the normal service life of conventional compressor oils.
- \* **Low Volatility** – The low volatility of the PAO's results in lower makeup requirements due to evaporation loss.
- \* **Less Oil carry over** – Due to its low volatility, there are 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.
- \* **High Viscosity Index** – This results in a minimum change in viscosity with temperature. The adequate viscosity for proper bearing lubrication is provided regardless of temperature change.
- \* **Excellent Cold Temperature Starting and Pumpability.**
- \* **Fire and Explosion Possibilities are Greatly Reduced** – This is due to not only the PAO's extremely low carbon forming tendencies, but also to their relatively high flash, fire and auto ignition points.
- \* **Greater Hydrolytic Stability and Demulsibility Characteristics** – Since PAO's are non-polar; they absorb less water under high humidity conditions. They also separate condensed water much faster and more completely, thus resulting in the water being removed easily from the system. These properties result in extended bearing life, anti-wear protection and improved rust and corrosion protection.
- \* **Excellent Operating Temperature Reduction** – PAO's have better specific heat values (less available heat is absorbed) and better thermal conductivity than conventional air compressor oils. These combined properties help to reduce operating temperatures.
- \* **Compatibility with all Types of Seals and Coatings**

CompSYN meets or exceeds;

**DIN 51506 (VBL, VCL, VDL)**

**ISO / DP 6521 (DAA, DAB, DAH, DAG)**

### **Typical properties:**

<b>Kinematic Viscosity @ 40°C</b>	<b>46 cSt</b>
<b>Kinematic Viscosity @ 100°C</b>	<b>7.9 cSt</b>
<b>Viscosity Index</b>	<b>146</b>
<b>Pour point</b>	<b>-46</b>
<b>Colour</b>	<b>clear</b>
<b>TAN</b>	<b>tba</b>
<b>Flash Point (ASTM D-92) °C</b>	<b>240</b>
<b>Specific gravity</b>	<b>0.873</b>

CompSYN is also available in grades iso 32, 68 and iso100 or blended to specific requirements

