



MAK SCREWCOM

Premium quality oils for rotary screw air compressors

MAK Screwcom Oils are high quality, high performance mineral oils developed for rotary vane and screw air compressors. They are formulated from highly refined, high viscosity index base stocks and high performance ashless additives. These oils have exceptional resistance to oxidation and thermal degradation. The thermal stability and oxidation resistance of these fluids can help maintain cleaner compressors, thereby enabling longer running periods between scheduled maintenance and oil changes. The outstanding anti-wear and corrosion protection are designed to enhance equipment life while reducing maintenance requirements. The lubricant creates a strong film in order to avoid surface wear. They exhibit reduced carbon forming tendency, anti-foam characteristics and excellent air release property. Because of their high FZG ratings, these oils are excellent choice for compressor systems employing gear and bearings. MAK Screwcom oils are compatible with seal materials and paints normally specified for use in compressor systems with mineral oils.

Grades: MAK Screwcom Oil range is available in the following ISO VG grades – **46** and **68**

Applications:

MAK Screwcom Oil range is recommended for oil flooded or oil injected, single or two-stage screw compressors powered by Electricity or Diesel. It is also suitable for single or two stage rotary vane compressors. These oils are recommended for drain cycles of up to 4000 hours under standard conditions of use.

Performance/ Benefits:

Outstanding Oxidation Stability – outstanding resistance to the effects of oxidising agents. Prevents sludge and deposit formation. Resists formation of deposits in sliding vane slots in vane compressor and on rotating components in screw compressor. Ensures longer operating life, less maintenance and reduction in operating cost.

Good Thermal Stability – provides good resistance to thermal break down and capability to work under varied ambient temperatures to offer optimum life and performance.

Excellent Wear Protection – advanced ashless chemistry provides excellent protection to the internal metal surfaces, bearings, gears and other system components. Operates on a wide range of load conditions – moderate to severe.

Rapid Air Release and Resistance to Foaming – rapid release of foam and air, protecting components from aeration and cavitation damage, leading to reduced wear. It also ensures reliable start-ups and system reliability.

Excellent Demulsibility – ensures rapid separation of water from oil. Less carryover to downstream utilities. Reduced formation of sludge and deposit. Increases system efficiency and reliability.

Low Ash and Carbon Formation – reduces deposits in discharge lines and the potential fire hazards, improves valve and compressor performance.

Increased System Reliability and Safety – by resisting thermal and chemical break down of the oil these oils minimise the risk of formation of the harmful sludge and carbonaceous deposits. These deposits in the presence of heat from the compressed air may pose fire hazard.

Specification:

- Proprietary grade

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 5 yrs. under protected storage conditions.

Health & Safety:

They are unlikely to be hazardous when properly used in recommended applications. Contamination of the oil from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.

**Typical Physico-Chemical Data: MAK Screwcom**

Characteristics	Method	46	68
Appearance	Visual	Clear & Bright	Clear & Bright
Density, g/cc @15°C	ASTM D1298	0.845	0.850
Kinematic Viscosity @40°C, cSt	ASTM D445	46.2	68.5
Kinematic Viscosity @100°C, cSt	ASTM D445	7.15	9.35
Viscosity Index	ASTM D2270	115	115
Flash Point, COC, °C	ASTM D92	240	244
Pour Point, °C	ASTM D97	-18	-18
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1a	1a
Rust Preventive Characteristics	ASTM D665	Pass	Pass
Foaming, (Tendency/ Stability), ml/ml	ASTM D892		
Sequence I		10/0	10/0
Sequence II		0/0	0/0
Sequence III		10/0	10/0
Air Release Value, minutes	ASTM D3427	5	8
FZG Rating, FLS	ASTM D5182	11	11