

MAK SCREWCOM FG

Food grade rotary screw air compressor oils

MAK Screwcom FG oils are high quality, high performance rotary screw air compressor oils formulated from highly refined, high viscosity index base stocks and high performance ashless additives. MAK Screwcom FG oils are NSF H1 registered oils for incidental food contact and to be used in food processing environment. These oils have exceptional resistance to oxidation and thermal degradation thereby helps in maintaining cleaner compressors and longer running periods between scheduled maintenance and oil changes. The outstanding anti-wear and corrosion protection are designed to enhance equipment life. They exhibit reduced carbon forming tendency, excellent anti-foam characteristics and air release property. Because of their high FZG ratings, these oils are excellent choice for compressor systems employing gear and bearings. MAK Screwcom FG oils are compatible with seal materials and paints normally specified for use in compressor systems with mineral oils.

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

Applications:

MAK Screwcom FG range is recommended for use in compressors systems in food processing and packaging plants where incidental food contact can occur. They are especially recommended for all types of rotary screw air compressors, rotary vane compressors and centrifugal compressors where incidental food contact may occur with oil in the discharge air. These are recommended for use in food processing, baking, bottling, meat processing and packaging applications.

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 to offer optimum life and performance even at elevated temperatures.

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. 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.

NSF – NSF International, USA
H1 – Possibility of incidental food contact

Typical Physico-Chemical Data: MAK Screwcom FG

Characteristics	Method	46	68
Appearance	Visual	Clear	Clear
Density, g/cc @15OC	ASTM D1298	0.850	0.860
Kinematic Viscosity @40OC, cSt	ASTM D445	46.6	68.5
Kinematic Viscosity @100OC, cSt	ASTM D445	7.2	9.4
Viscosity Index	ASTM D2270	115	115
Flash Point, COC, OC	ASTM D92	230	238
Pour Point, OC	ASTM D97	-15	-15
Copper Corrosion, 100OC, 3 hrs.	ASTM D130	1a	1a
Foaming Characteristics/ Stability, ml Sequence I/ II/ III	ASTM D892	NIL	NIL
Demulsibility (ml-mins)	ASTM D1401	40-40-0 (15)	40-40-0 (20)
FZG Rating, FLS	ASTM D5182	11	11