



MAK COMPRESSOR OIL C

Superior quality reciprocating air compressor oil for moist air

MAK Compressor Oil C is a group of high quality, high performance oils developed for reciprocating air compressors handling moist working media. They are formulated from highly refined, high viscosity index base stocks and high performance additives. Reciprocating compressors sometimes operate with highly moist working medium like moist air or moist natural gas. The moisture is trapped in order to reduce the risk of corrosion of the compressor components. These oils are compounded to form stable emulsion with the moisture. The moisture is trapped and remains isolated from the metal surfaces. Reciprocating compressors operate at high temperatures and pressures. The lubricant creates a strong film in order to avoid surface wear. These oils have exceptional resistance to oxidation and thermal degradation. The thermal stability and oxidation resistance of these fluids can help to 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. These oils can be used for compressors working under heavy load. They exhibit reduced carbon forming tendency, anti-foam characteristics and excellent rust corrosion protection. MAK Compressor Oil C are compatible with seal materials and paints normally specified for use in compressor systems with mineral oils.

Grades: MAK Compressor Oil C range is available in the following ISO VG grades – **100, 150 and 220**

Applications:

MAK Compressor Oil C range is recommended for cylinder lubrication of high pressure, high performance reciprocating single stage or multistage air compressors handling moist media. It is suitable for reciprocating compressors where air discharge temperature goes as high as 220°C. They can also be used in other industrial pneumatic applications but not suitable for breathing air or oxygen compression.

Performance/ Benefits:

Outstanding Oxidation Stability – outstanding resistance to the effects of oxidising agents. Resists sludge and deposit formation. 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 – excellent protection to the internal metal surfaces, valve 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.

Stable Emulsion – forms stable emulsion with the moisture of the working media. Provides protection to the metal surfaces from rust and corrosion. Increases system efficiency and reliability.

Increased System Reliability and Safety – by resisting thermal and chemical break down of 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 Compressor Oil C

Characteristics	Method	100	150	220
Appearance	Visual	Clear & Bright	Clear & Bright	Clear & Bright
Density, g/cc @15°C	ASTM D1298	0.8820	0.8840	0.8966
Kinematic Viscosity @40°C, cSt	ASTM D445	97.55	152.60	212.8
Kinematic Viscosity @100°C, cSt	ASTM D445	11.45	14.85	18.4
Viscosity Index	ASTM D2270	104	96	95
Flash Point, COC, °C	ASTM D92	220	238	258
Pour Point, °C	ASTM D97	-9	-9	-9
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1b	1b	1b
Rust Test	ASTM D665	Pass	Pass	Pass