

Reciprocating Compressor Oil (RC)



Product Description

Podlee reciprocating compressor oil is a specialized lubricant formulated for reciprocating (piston-type) compressors, which are widely used in industrial, automotive, and gas processing applications. These oils are designed to withstand the extreme pressures, high temperatures, and repetitive motion inherent in reciprocating compressors, ensuring reliable performance, reduced wear, and extended equipment life.

RC range oils are categorized into RC1 and RC2 series based on air compressor load conditions:

RC1 Series: Designed for light-to-medium duty or intermittent operation.

RC2 Series: Optimized for medium-to-heavy duty, continuous operation, or high-temperature environments.

Application

Industrial reciprocating air compressors (single or multi-stage)

Natural gas compressors (including high-pressure systems).

Refrigeration compressors (ammonia or hydrocarbon-based systems).

Automotive air compressors.

Advantages

Excellent Thermal-Oxidative Stability: Resists thermal breakdown and oxidation at high operating temperatures, preventing the formation of sludge, varnish, and carbon deposits.

Superior Anti-Rust and Anti-Corrosion Properties: Protects critical components such as cylinders and exhaust valves from rust and corrosion caused by moisture and acidic by-products.

Typical Characteristics

Item	Test Data								Standard
	RC1			RC2					
Viscosity (mm ² /s@104 F /40 °C)	68	100	150	32	46	68	100	150	ASTM D445
Viscosity Index	98	101	106	100	100	100	100	100	ASTM D2270
Flash Point - Open Cup Method, (°F/°C)	406/ 208	415/ 213	431/ 222	413/ 212	413/ 212	413/ 212	413/ 212	413/ 212	ASTM D92
Pour Point (°F/°C)	14/ -10	14/ -10	17/ -8	14/ -10	14/ -10	14/ -10	14/ -10	14/ -10	ASTM D97
Water (%)	None	None	None	None	None	None	None	None	ASTM D95
Rust Preventing Characteristics (A)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	ASTM D665
Water separability (40-37-3ml), min	-	-	-	8	7	8	10	15	ASTM D1401

Package

18 L/Barrel

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