

PRODUCT DATA SHEET

Royal Cirro R&O Oils

Premium Rust and Oxidation Compressor Oils



PRODUCT DESCRIPTION:

Royal Cirro R&O Oils are compounded from select base stocks and are fortified with premium oxidation and rust inhibitors as well as antifoam agents. They protect against high temperatures, rust, water and entrained air. These oils are proven performers in hydraulic systems and circulating systems as well as other industrial applications.

Royal Cirro R&O Oils have provided excellent performance when used for oil-film back-up roll bearings in hot and cold mills, high speed rod mills, and reduction gears and bearings. Excellent results have also been obtained in Morgan No-Twist rod mills using Grade 100.

KEY FEATURES:

- Excellent Oxidation Resistance
- Outstanding Rust Protection
- Good Demulsibility

CUSTOMER BENEFITS:

- Rust and heat stability through use of high VI base stocks and selected additives
- Oxidation protection for extended pump life in various pressure circulating systems
- Anti-wipe properties for protection in journal-to-bearing contact during mill start-up and reversing
- Foam inhibited to assure smooth and efficient machine operation through rapid release of entrained air

APPLICATIONS:

Royal Cirro R&O Oils Provide excellent performance when used for reciprocating and rotary screw compressors.

PACKAGING:

Drums and Pails

PRODUCT DATA SHEET

Cirro R&O Oils

Premium Rust and Oxidation Compressor Oils



Typical Properties

Cirro R&O Oils											
Product Number	240	241F	242E	243	244	245	246	247	248	250	Test Method
ISO Grade	22	32	46	68	100	150	220	320	460	100	
API	33.1	31.88	30.8	30.36	30.27	29.5	28.67	27.9	27.14	34.68	-
Specific Gravity	0.8592	0.8661	0.8719	0.8742	0.8747	0.8789	0.8834	0.8877	0.892	0.8515	ASTM D4052
Lbs/Gal	7.159	7.213	7.261	7.28	7.285	7.319	7.357	7.393	7.428	7.091	
Density	0.8592	0.8656	0.8714	0.8737	0.8742	0.8784	0.8829	0.8872	0.8915	0.8510	
Flash Point °C	194	208	221	230	236	250	264	278	291	174	ASTM D92
Pour Point °C	-24	-24	-21	-21	-21	-18	-12	-9	-3	-24	ASTM D97
Color, ASTM	<1.5	<1.5	<1.5	<1.5	<1.0	<2.0	<2.5	<3.0	<3.0	-0.3	ASTM D1500
Viscosity@100C, cSt	14.5	5.4	6.608	8.6	11.22	4.15	18.95	23.2	30.95	2.8	ASTM D445
Viscosity@40C, cSt	22	33.11	46	68	100	150	218.8	320	474.6	11.92	ASTM D445
Viscosity Index (VI)	95	95	95	97	97	95	95	91	97	97	ASTM D2270

Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

Health and Safety:

When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, www.royalmfg.com, or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.