

## PRODUCT DATA SHEET

### **Cirro (Agma) 250.4 (R&O) Oils** **R&O Compressor Oils**



#### **PRODUCT DESCRIPTION:**

**Cirro (Agma) 250.4 (R&O) Oils** are compounded from carefully selected base stocks and are fortified with premium oxidation and rust inhibitors as well as antifoam agents. These protect against high temperatures, rust, water and air.

**Cirro (Agma) 250.4 (R&O) Oils** are proven performers in hydraulic systems and circulating systems as well as other industrial applications. These oils meet major manufacturers' requirements for application in circulation oil-film back-up roll bearing systems and other high loading gear applications requiring non-EP (zinc free) oils.

**Cirro (Agma) 250.4 (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:**

- 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 reversal

#### **CUSTOMER BENEFITS:**

- Excellent demulsibility to provide rapid water separation and retention of demulsibility after oxidation
- Superior rust and oxidation protection for long life and reduced maintenance
- Foam inhibited to assure smooth and efficient machine operation through rapid release of entrained air

#### **APPLICATIONS:**

Mills and gears

#### **PACKAGING:**

Totes and Drums

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### Typical Properties

| Cirro (Agma) 250.4 (R&O) Oils |      |      |      |       |       |       |             |
|-------------------------------|------|------|------|-------|-------|-------|-------------|
| Product Number                | 242  | 243  | 244  | 245   | 246   | 247   | Test Method |
| ISO Grade                     | 46   | 68   | 100  | 150   | 220   | 320   |             |
| Agma Grade                    | 1    | 2    | 3    | 4     | 5     | 6     |             |
| API Gravity                   | 31.0 | 30.9 | 29.6 | 28.5  | 28.0  | 26.9  | ASTM 4052   |
| Viscosity, cSt @40°C          | 45.5 | 68.3 | 99.9 | 150.5 | 218.8 | 318.9 | ASTM D445   |
| Viscosity, cSt @100°C         | 6.6  | 8.7  | 11.2 | 14.8  | 18.9  | 24.3  | ASTM D445   |
| Viscosity, SUS @100°F         | 240  | 342  | 512  | 798   | 1165  | 1705  | ASTM D2161  |
| Viscosity, SUS @ 210°F        | 48   | 55   | 63   | 78    | 95    | 118   | ASTM D2161  |
| Viscosity Index               | 97   | 97   | 95   | 95    | 95    | 95    | ASTM D2270  |
| Pour Point °C                 | -21  | -21  | -21  | -18   | -12   | -9    | ASTM D97    |
| Flash Point, C                | 221  | 230  | 236  | 250   | 264   | 278   | ASTM D92    |
| Color ASTM                    | 2.0  | 2.0  | 3.0  | 4.5   | 4.5   | 5.0   | ASTM D1500  |
| TOST Hours                    | 6000 | 6000 | 3000 | 3000  | 3000  | 3000  |             |

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](http://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.