



marine lubricants

# Regal® R&O



## Description

Regal® R&O is a premium-quality rust- and oxidation-inhibited turbine oil. It is manufactured from highly refined paraffinic base oils. It contains oxidation, corrosion, and foam inhibitors. The oil has good water separating properties, high oxidation stability, first-rate anti-corrosion properties, and low carbon forming tendency.

## Typical Characteristics

ISO Viscosity Grade	32	46	68	100	320
MPID	219342	219343	219341	219344	219940
Density at 15°C, kg/l	0.88	0.87	0.86	0.88	0.89
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	30.4	43.7	64.6	95.0	43.7
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	5.2	6.5	8.4	10.8	6.5
Viscosity Index	100	98	99	97	98
Pour point, °C	-15	-15	-15	-15	-15
Flash point COC, °C	220	224	245	215	252
Oxidation (ASTM D 943), hrs to TAN = 2.0 mg KOH/g	3000+	3000+	3000+	5500+	1800+
Rust test, synthetic seawater	PASS	PASS	PASS	PASS	PASS
FZG, Pass Stage, DIN 51354	10	10	10	10	—
Air release @ 50°C, mins	2.1	2.0	3.0	10	—

## Recommended Applications

Regal R&O is recommended primarily for use in marine turbines of all types. These include steam, hydraulic and gas turbines. Regal R&O also provides good performance in hydraulic machinery, circulating oil systems, all applications where a high-quality, stable lubricant with good water-separating characteristics is required and non-heavy duty hydraulic systems where OEM recommends R&O type oils (for heavy duty hydraulic systems, customers should consider Rando HDZ hydraulic oil). These products can also be used as a general-purpose machine oil for shop use when R&O type oil is needed or is recommended. The multifunctional characteristics of Regal R&O type oils may allow them to replace other special application lubricants, which can result in reduced inventory and operating cost.

## Regal R&O Meets The Requirements Of:

- Alstom HTGD 90117
- ASTM D4304

- British Standard 489
- DIN 51515

## Regal R&O Is Approved For:

- Heisin Pumps (VG 68)
- Regulateur Europa (VG 68 & VG 100)

- IMI Norgen (VG 46)



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### Performance Benefits

#### 1. Oxidation Stability

Aims to provide long service life free from deposits, sludge, and acidic oxidation products, thus avoiding sticking valves, and ensuring good bearing protection.

#### 2. Rust Protection

Aims to protect against corrosion or rusting of costly precision parts.

#### 3. Water Separation

Assists with speedy removal of contaminating water from leaks and condensation.

#### 4. Foam Inhibited

With an effective surface-foam suppressant, it often resists foaming which can generally ensure smooth functioning of governors and minimizes the risk of sump overflow.

#### 5. Air Release Properties

A balanced combination of inhibitors prevents air locking of oil circulating pumps due to entrained air. This often provides smooth and trouble-free operation of lubricating oil systems.

#### 6. Potential inventory savings

Rust and oxidation inhibited formulation has multipurpose capability in a wide range of industrial applications for which this type of product is recommended, helping to simplify oil inventories and reduce the possibility of using the wrong lubricant.



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