



# Regal® R&O 32 / 46 / 68 / 100

## Circulating and Turbine Oil

Product Data Sheet

### Customer benefits

#### Resists degradation

The good oxidation stability provided by the multi-component inhibitor system resists oil breakdown during exposure to high temperature conditions.

#### Potential maintenance and downtime savings

The highly refined base stocks and multi-component oxidation inhibitor system resist the formation of harmful sludge and varnish deposits. The rust inhibitor protects components against corrosion.

#### Smooth operation

The good water separability of the highly refined base stocks and inhibitor system ensure rapid settling of harmful water accumulated from steam condensate. The non-silicone foam inhibitor allows rapid release of entrained air while minimizing foam formation, enabling reliable operation of sensitive hydraulic control devices.

#### Potential inventory savings

The 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.

### Applications

Regal R&O is suitable for use in the following applications provided a rust and oxidation (R&O) inhibited oil is acceptable.

- Steam and hydraulic turbines operating under all service conditions
- Centrifugal, rotary and reciprocating compressors, turbo-blowers and centrifugal pumps (not recommended for use in breathing air compressors)
- Bath and circulating systems supplying rolling element bearings of all types, lightly loaded gear sets, vacuum pumps (including rotary vacuum pumps used in the dairy farming industry), machine tools (including computer controlled units), conveyors, electric motors, and low to moderate pressure hydraulic pumps where anti-wear properties are not required

### Product features:

- Regal® R&O is an inhibited circulating and turbine oil formulated from highly refined base stocks and rust, oxidation and foam inhibitors.

## Typical key properties

REGAL® R&O				
ISO Grade	32	46	68	100
Product Code	520010	520011	520012	520013
Air Release @ 50°C, mins	2.9	3.8	5.0	–
Flash Point, COC, °C	212	224	234	254
Oxidation Stability, D943, hrs to 2.0 Acid No.	3000	3000	2700	2500
Pour Point, °C	-9	-9	-9	-9
Viscosity, mm <sup>2</sup> /s @ 40°C	32	46	68	100
mm <sup>2</sup> /s @ 100°C	5.4	6.7	8.6	11.1
Viscosity Index	102	100	98	96

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Minor variations in product typical test data are to be expected in normal manufacturing.



## Performance standards

Regal R&O is suitable for use where the following industry and OEM specifications are requested:

- German Standard DIN 51515 Part 1 (2001)
- General Electric GEK 27070, GEK 46506D
- ANSI/AGMA 9005-F16 for R&O inhibited oils
- David Brown Table M - 0M, 1M, 2M, 3M (ISO 32 to 100, respectively)
- Cincinnati Fives P-38, P-55, P-54 (ISO 32, 46, 68, respectively)

Regal R&O 68 is suitable for use in Masport rotary vacuum pumps used in dairy farm milking machine applications. In extreme cold weather conditions, Regal R&O 46 may be required.

For turbines, where full equipment manufacturer approvals are required, please use GST and GST Advantage turbine oils.

## ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit [www.caltex.com](http://www.caltex.com).

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:  
**Chevron Global Lubricants**  
– Asia Pacific