



# TEXACO REGAL<sup>®</sup> R&O

## 32, 46, 68, 100, 150, 220, 320, 460

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### CUSTOMER BENEFITS

Texaco Regal R&O oils deliver value through:

- **Prolonged oil service life** — Excellent oxidation stability provided by the multi-component inhibitor system resists oil breakdown during exposure to high temperature conditions for longer service life.
- **Saves on maintenance and downtime** — Highly refined base stocks and multi-component oxidation inhibitor system resist the formation of harmful sludge and varnish deposits. The special rust inhibitor protects components against corrosion.
- **Trouble-free operation** — Excellent water separability of the highly refined base stocks and special inhibitor system ensure rapid settling of harmful water accumulated from steam condensate. The nonsilicone foam inhibitor allows rapid release of entrained air while minimizing foam formation to enable reliable operation of sensitive hydraulic control devices.
- **Saves on inventory** — Good quality rust and oxidation inhibited formulation has multipurpose capability in a wide range of industrial applications for which this type of product is recommended, simplifying oil inventories and reducing the possibility of using the wrong lubricant.

### FEATURES

Texaco Regal R&O oils are inhibited turbine oils formulated from highly refined base stocks and rust, oxidation, and foam inhibitors.

Texaco Regal R&O oils are good quality lubricants for any application not requiring antiwear or extreme pressure protection.

The natural thermal and oxidation stability of these lubricants, due to their high level of refinement, has been further enhanced by their unique additive systems. The high thermal and oxidation stability also reduces the possibility of oxidation deposits or the generation of acidic material from oxidation.

Texaco Regal R&O oils are able to withstand relatively high temperature operations for extended periods of time. They have very good demulsibility characteristics allowing quick release of moisture.

They minimize entrained air which otherwise could result in low lubricant film strength between moving parts and pump cavitation.

### APPLICATIONS

Texaco Regal R&O 32 through 150 are recommended for use in electric motor bearings, air compressors, gears, hydroelectric turbines, steam turbines, combustion turbine generators (gas), marine turbines, and hydraulic systems (except heavy duty systems).

These products can also be used as a general purpose machine oil for shop use.

#### Texaco Regal R&O 32

- meets
  - **General Electric** GEK 28143A, GEK 46506D
  - **Alstom** HTGD 90117
  - **Siemens** TLV 901304
  - **ASTM** D4304, **British Standard** 489, and **DIN** 51515 standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
- is approved by **Cincinnati Machine** P-38

#### Texaco Regal R&O 46

- meets
  - **General Electric** GEK 28143A
  - **Alstom** HTGD 90117
  - **Siemens** TLV 901304
  - **ANSI/AGMA** 9005-E02 for gear lubrication as rust and oxidation inhibited gear oils
  - **ASTM** D4304, **British Standard** 489, and **DIN** 51515 standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
- is approved by
  - **Cincinnati Machine** P-55
  - **General Motors** LS2 LB for general purpose oils

**Texaco Regal R&O 68**

- meets
  - **General Electric, Alstom, Westinghouse**, and other OEM requirements for hydroelectric turbines, land and marine steam turbines, and associated reduction gears
  - **ANSI/AGMA** 9005-E02 for gear lubrication as rust and oxidation inhibited gear oils
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment
- is approved by **Cincinnati Machine P-54**

**Texaco Regal R&O 100**

- meets
  - **General Electric, Alstom, Westinghouse**, and other OEM requirements for hydroelectric turbines, land and marine steam turbines, and associated reduction gears
  - **ANSI/AGMA** 9005-E02 for gear lubrication as rust and oxidation inhibited gear oils
  - **ASTM D4304, British Standard 489**, and **DIN 51515** standard organization requirements for new lubricants used in gas and steam turbines and auxiliary equipment

Texaco Regal R&O **150 - 460** meet the requirements of ANSI/AGMA 9005-E02 for gear lubrication as rust and oxidation inhibited gear oils

Do not use Texaco Regal R&O 32, 46, or 68 in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Do not use in breathing air apparatus or medical equipment.

TYPICAL TEST DATA

	ASTM	32	46	68	100	150
CPS Number		220700	220701	220702	220706	220715
MSDS Number		8608	8608	8608	8608	8608
AGMA Grade		—	1	2	3	4
API Gravity	D 287	32.9	31.7	31.2	30.7	29.8
Viscosity, Kinematic cSt at 40°C cSt at 100°C	D 445	30.4 5.2	43.7 6.5	64.6 8.4	95.0 10.8	143 14.2
Viscosity, Saybolt SUS at 100°F SUS at 210°F	D 445	157 43.7	226 48.0	335 54.5	495 63.1	750 76.4
Viscosity Index	D 2270	100	98	99	97	96
Flash Point, °C(°F)	D 92	222(432)	224(435)	245(473)	262(504)	284(543)
Pour Point, °C(°F)	D 97	-33(-27)	-30(-22)	-27(-17)	-24(-11)	-21(-6)
Rust Test, Procedure B, 24 h	D 665	Pass	Pass	Pass	Pass	Pass
Oxidation Stability Hours to 2.0 mg KOH/g acid number Minutes to 25 psi pressure drop	D 943 D 2272	7000+ 1000+	7000+ 950+	6000+ 950+	6000+ 950+	4000+ 700+

	ASTM	220	320	460
CPS Number		221531	220819	221599
MSDS Number		8608	8609	8609
AGMA Grade		5	6	7
API Gravity	D 287	28.5	27.5	26.4
Viscosity, Kinematic cSt at 40°C cSt at 100°C	D 445	220 19.0	304 23.2	460 31.3
Viscosity, Saybolt SUS at 100°F SUS at 210°F	D 445	1163 96.8	1618 116	2463 152
Viscosity Index	D 2270	97	95	97
Flash Point, °C(°F)	D 92	294(561)	298(568)	310(590)
Pour Point, °C(°F)	D 97	-15(+5)	-12(+10)	-12(+10)
Rust Test, Procedure B, 24 h	D 665	Pass	Pass	Pass
Oxidation Stability Hours to 2.0 mg KOH/g acid number Minutes to 25 psi pressure drop	D 943 D 2272	2500+ 500+	2000+ 400+	1000+ 350+

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.