Mobil™

# Teresstic Series

Mobil Industrial , Central America

Circulating Oils

**Product Description**

TERESSTIC is the brand name for a line of long-service-life lubricating oils, TERESSTIC oils are formulated with carefully selected base stocks and highly effective additives, including oxidation and rust inhibitors and anti-foam agents.

The TERESSTIC line of circulating oils consists of nine viscosity grades. Eight of these grades are blended to viscosity values that conform to the International Organization for Standardization (ISO) viscosity classification system. TERESSTIC 77 is an intermediate grade between ISO viscosity grades 68 and 100.

**Features and Benefits**

Demulsibility – As water is perhaps the major menace to effective lubrication, it is essential that industrial circulating oils exhibit good demulsibility. All TERESSTIC grades shed water readily and are highly resistant to emulsification. These properties promote water separation in the reservoir, thus keeping it from recirculating with the oil. TERESSTIC oils (ISO VGs 32 - 100) typically provide separation times of 15 minutes or less on the standard ASTM D 1401 Demulsibility Test.

Foam Resistance and Air Release – The trend toward shorter residence time for oils in reservoirs makes it essential that industrial circulating oils resist foaming and readily eliminate entrained air. All TERESSTIC grades contain foam inhibitors.

Rust and Corrosion Protection – TERESSTIC oils are formulated with rust inhibitors. Grades 32 through 100 pass both distilled and salt water versions of ASTM D 665. The heavier grades are tested in the distilled water version only. The TERESSTIC line also passes the ASTM copper strip corrosion test, assuring protection of copper and bronze.

In summary, TERESSTIC circulating oils offer the following features and benefits:

- Excellent demulsibility
- Well balanced foam resistance and air release
- Rust- and oxidation-inhibited
- Long service life
- Excellent high-temperature stability
- For mild duty turbines, hydraulic systems, circulating systems, gear cases, heat transfer systems, and reciprocating natural gas compressors
- Complete range of ISO viscosity grades for all requirements

**Applications**

TERESSTIC oils are recommended for applications that require dependable lubrication for extended service periods – often for years. They effectively resist high temperatures, prevent rust, and shed entrained water and air. TERESSTIC oils give outstanding performance in hydraulic systems, circulating lubrication systems, gear cases, bearings, reciprocating natural gas compressors, and other industrial units, where a RandO lubricant is required, for which long trouble-free service is required.

Contamination of TERESSTIC oils with other products such as detergent motor oils may substantially impair their quality and could lead to operational problems such as foaming, filter plugging and sludge formation

**Properties and Specifications**

| Property | 77 | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 |
|---|---|---|---|---|---|---|---|---|---|
| Grade | 77 | ISO 32 | ISO 46 | ISO 68 | ISO 100 | ISO 150 | ISO 220 | ISO 320 | ISO 460 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1B | 1B | 1B | 1B | 1B | 1B | 1B | 1B | 1B |
| Demulsibility, Time to 3 mL Emulsion, 82 C, min, ASTM D1401 | | | | | 15 | | | | 30 |
| Emulsion, Time to 3 mL Emulsion, 54 C, min, ASTM D1401 | 20 | 15 | 15 | 20 | | | | | |
| Emulsion, Time to 3 mL Emulsion, 82 C, min, ASTM D1401 | | | | | | 30 | 30 | 30 | |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 9.3 | 5.3 | 6.6 | 8.5 | 11.1 | 14.5 | 18.8 | 24 | 30.4 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 77 | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 |
| Neutralization Number, mgKOH/g, ASTM D974 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Pour Point, °C, ASTM D97 | -12 (10) | -21(-6) | -12 (10) | -12(10) | -12(10) | -12(10) | -12(10) | -12(10) | -12(10) |
| Rust Characteristics, Procedure A, ASTM D665 | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |
| Rust Characteristics, Procedure B, ASTM D665 | PASS | PASS | PASS | PASS | PASS | | | | |
| Viscosity Index, ASTM D2270 | 95 | 96 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |

**Health and Safety**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute 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. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit

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