



## Teresstic Series

Mobil Industrial , Bermuda

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 TERESTIC 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, mm <sup>2</sup> /s, ASTM D445	9.3	5.3	6.6	8.5	11.1	14.5	18.8	24	30.4
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /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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