Mobil

TERESSTIC Series

Mobil Industrial , Singapore

Circulating Oils

Product Description

TERESSTIC is the brand name for a line of long-service-life lubricating oils that have ranked for over five decades among the finest products of their kind. Continually improved over the years, TERESSTIC oils are formulated with carefully selected basestocks and highly effective additives, including oxidation and rust inhibitors and anti-foam agents. The TERESSTIC line of premium circulating oils consists of four viscosity grades. All these grades are blended to viscosity values that conform to the International Standards Organization (ISO) viscosity classification system.

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 typically provide separation times of 15 minutes or less on the standard ASTM D 1401 Demulsibility Test.

Thermal Stability, Foam and Air Release-TERESSTIC Series lubricants are formulated from highly refined base stocks and an additive system which provide an extremely high level of chemical and thermal stability and excellent air release properties to minimise compressibility and prevent noisy and erratic operation. All TERESSTIC grades contain foam inhibitors that enables them to resist foaming.

Rust and Corrosion Protection - TERESSTIC oils are formulated with rust inhibitors and the rust and corrosion protection is tested in the distilled water version of ASTM D 665. The TERESSTIC line also passes the ASTM copper strip corrosion test, assuring protection of copper and bronze.

Turbine quality premium TERESSTIC circulating oils offer the following features and benefits:

- Excellent demulsibilty
- 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.

Typical Properties

TERESSTIC	150	220	320	460
ISO viscosity grade	150	220	320	460
Density 15ºC, ASTM D 1298, kg/L	0.89	0.88	0.89	0.89
Viscosity, ASTM D 445				
cSt @ 40ºC	157	214	306	432

TERESSTIC	150	220	320	460
cSt @ 100ºC	15.7	18.7	23.8	30.3
Viscosity Index, ASTM D 2270	95	95	95	95
Neutralization Number	0.20	0.06	0.06	0.06
Rust Characteristics, ASTM D 665A	Pass	Pass	Pass	Pass
Pour Point, ºC, ASTM D 97	-18	-18	-9	-9
Flash Point, ºC, ASTM D 92	266	266	277	307
Oxidation Stability, ASTM D 943	1250	1000+	1000+	1000+
AGMA number	4	5	6	--

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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ExxonMobil Asia Pacific Ltd
1 HarbourFront Place
#06-00 HarbourFront Tower One
Singapore 098633

+65 6885 8000
http://www.exxonmobil.com

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 www.exxonmobil.com
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