

Product Data Sheet

Tomoil™ Circulating Oil Synth 680 LX

Circulating oil

Product description

Tomoil™ Circulating Oil Synth 680 LX stands as a premium lubricating solution for circulating, gear, and bearing applications, carefully engineered with synthetic base fluids and enriched with cutting-edge additives to provide advanced anti-oxidant, anti-wear, anti-rust, and anti-foam characteristics. It demonstrates outstanding performance, excelling in energy efficiency, filterability, and extended operational life, even in the most demanding heavy-duty environments.

Application

- Filled-for-life gearboxes, particularly high ratio/low-efficiency worm gears
- Remote gearboxes, challenging for oil change-out
- Mixer roll bearings and roll neck bearings exposed to high temperatures
- Plastic calendars
- Severe centrifuge applications, including marine centrifuges

Features & Benefits

- Exceptional thermal and oxidation stability
- Superb deposit and varnish control
- Effective lubrication at high temperatures
- High load-carrying capability
- Outstanding resistance to rusting and corrosion
- Remarkable seal compatibility

Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	680
Density at 15°C	g/cm ³	ASTM D 4052	0.863
Kinematic Viscosity at 40°C	mm ² /s	ASTM D 445	680.0
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445	66.27
Viscosity Index	-	ASTM D 2270	170
Flash Point (COC)	°C	ASTM D 92	272
Pour Point	°C	ASTM D 97	-33
Copper Strip Corrosion	-	ASTM D 130	1b

Typical property characteristics are based on current production. Whilst future production will conform to TomoilTM specifications, variations in these characteristics may occur.

Performance claims

- AGMA 9005-F16
- DIN 51517-3
- ISO 12925-1 Category CKT

Health, Safety & Environment

• Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: www.tomoil.de

• Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Available pack sizes

- | | |
|-------------------------|--------------------------|
| • 20 L Canister plastic | • 200 L Drum sheet metal |
| • 30 L Canister plastic | • 1000 L Container |

Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

Notes

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