



Lab Certified Lubricants

PRODUCT DATA SHEET

Full Synthetic Circulating Oil

CIM ULTRA CIRCULATING OIL 46 SYNTHETIC PAO

Description

CIM Ultra Circulating Oil 46 Synthetic PAO is a full synthetic ISO VG 46 circulating lubricant blended using PAO (polyalphaolefin) synthetic base oils and a selected performance additive system. The product is intended for industrial circulating systems requiring clean operation, high viscosity index, low-temperature fluidity, oxidation control and reliable anti-wear protection.

The product is designed for applications where an ISO VG 46 synthetic circulating oil is specified and where extended fluid life, stable viscosity, low pour point and reduced maintenance risk are required. Always confirm the lubricant requirement against the OEM manual before use.

Features and Benefits

Full synthetic PAO base oil for stable viscosity performance over a wide operating temperature range.

High viscosity index to support consistent oil film formation under temperature variation.

Low pour point for improved cold-start circulation and pumpability.

Anti-wear additive chemistry to support protection of bearings and lightly loaded contact surfaces.

Designed to support rust, corrosion, oxidation and foam control in circulating oil systems.

Bright and clear appearance assists with visual inspection and contamination checks.

Applications

Industrial circulating oil systems require ISO VG 46 synthetic PAO oil.

Plain bearings, rolling-element bearings and oil-bath systems operating under moderate load. specially high ratio/ low-efficiency worm gears; Remotely located gearboxes, where oil change-out is difficult; Low temperature applications, such as ski lifts where seasonal oil changes can be avoided; Mixer roll bearings and roll neck bearings where high temperatures are encountered; Plastic calendars; Severe centrifuge applications, including marine centrifuges; Railroad A/C Traction Drives

Selected enclosed gear and drive systems where the OEM permits ISO VG 46 circulating oil and does not require a dedicated EP gear oil.

Selected compressor circulating systems where the OEM specifies ISO VG 46 PAO synthetic oil and CIM technical suitability is confirmed.

Hard-to-service systems where longer lubricant life and temperature stability are required, subject to oil analysis and maintenance control.

Not Recommended For

- Automotive transmissions, axles, wet brakes or limited-slip differentials.
- Heavy-duty industrial gearboxes requiring formal EP gear-oil approvals unless separately confirmed by CIM Lubricants.
- Food-grade, oxygen service, refrigeration compressor or gas compressor applications without written OEM and CIM technical confirmation.

Typical Characteristics: CIM ULTRA CIRCULATING OIL 46 SYNTHETIC PAO

Property	Test method	Typical value
Pour Point °C	ASTM D 97	-57
Physical state	—	Liquid
Kinematic viscosity @ 40°C	ASTM D 445	45.424 cSt
Kinematic viscosity @ 100°C	ASTM D 445	7.9313 cSt
Density @ 20°C	ASTM 1298 g/cm ³	0.8405
Flash point (COC)	ASTM D93 A	229.5°C
Solubility in water	—	Not soluble
Viscosity Index	ASTM D2270	147
Appearance (Visual)		Bright & Clear
Copper Corrosion 24hrs @ 115 °C	ASTM D130	1B
Flender Foam Test Seq I , II , III Tendency stability	Flender Mechanical	I - 10/0 , II – 30/0 ,III – 10/0
RPVOT	ASTM D 2272	2500

Users advised against: Any use outside the stated application without technical confirmation.

CIM ULTRA CIRCULATING OIL 46 SYNTHETIC PAO

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Storage & Packaging

Store in a cool, dry, well-ventilated area.

Protect from direct sunlight and contamination.

www.cimlubricants.com

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Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet.