



Clarity[®] Machine Oil

High performance circulating oil

Product Data Sheet

Product description

Clarity Machine Oils are high performance ashless circulating oils formulated for use in industrial circulating systems.

Clarity Machine Oils are designed with an ashless extreme pressure additive system that combines rust, oxidation, and foam inhibitors with high quality base oils. The ashless formulation facilitates oil reclaim and recycling.

Customer benefits

- Advanced inhibitor package aids high temperature oxidation resistance at elevated equipment temperatures
- High performance additive and base oil combination offers reduced oil breakdown and aids extended oil service life
- Robust performance in the FAG FE-8 Bearing Test
- Extreme pressure and ashless anti-wear additives promote reliable FZG, Timken and AGMA EP protection and performance
- Aids rapid water separation in circulating system reservoirs and helps reduce premature filter plugging and system wear
- Contributes efficient foam suppression, reduced entrained air, pump cavitation and helps prevent surface foam
- Offers good wet aged filtration in the Pall Filterability Test using low micron filters
- Ashless formulation offers reclaiming, recycling and environmental protection
- Non toxic to aquatic species as determined by LC-50 testing

Applications

- The Clarity Machine Oil series is recommended for use in the circulating systems of industrial equipment including gear boxes, wet-end systems, dryer bearings, and calender stacks in paper machine systems

Product highlights:

- High temperature oxidation resistance
- Long oil service life
- Meets FAG FE-8 Bearing Test requirements
- Extreme pressure and ashless anti-wear protection
- Rapid water separation
- Selected specification standards include:
 - Beloit
 - Sulzer
 - Valmet
 - Voith

A Chevron company product

All trademarks are property owned by Chevron Africa-Pakistan Services (Proprietary) Limited or Chevron Intellectual Property LLC and licensed to Astron Energy Proprietary Limited.



- Clarity Machine Oils have been used successfully in the lubrication of many types of paper machines, including Valmet and Beloit equipment
- Clarity Machine Oils offer good filtration performance in the Pall Filterability Test using low micron filters
- Clarity Machine Oils ISO 150, 220, 320 may be used as AGMA EP Oils 4, 5, 6, respectively, for back-side gears and enclosed gear drives
- Clarity Machine Oils ISO 220 and 320 may also be used in plain and antifriction bearings

Approvals, performance and recommendations

Recommendations

- Valmet, Beloit, Voith, Sulzer

Typical test data

CLARITY MACHINE OIL TEST	TEST METHODS	RESULTS		
		150	220	320
Viscosity Grade		150	220	320
Product Code		540594	540595	540596
AGMA Grade	-	4EP	5EP	6EP
Kinematic viscosity, 40°C, mm ² /s	ASTM D445	143	209	304
Kinematic viscosity, 100°C, mm ² /s	ASTM D445	14.6	18.4	23.5
Viscosity Index	ASTM D2270	101	97	98
Flash Point, °C	ASTM D 92	246	249	248
Pour Point, °C	ASTM D97	-15	-15	-12
Timken OK Load, lb	ASTM D2782	60	60	60
FZG Failure stage	DIN 51 354	>12	>12	>12
Oxidation Stability				
Hrs to 2.0 mg KOH/g acid number	ASTM D943	4500	4000	3000
Minutes to 25 psi pressure drop (RPVOT)	ASTM D2272	367	375	345



Clarity[®] Machine Oil

High performance circulating oil

continued

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

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

For more information, go to www.chevronlubricants.com

A Chevron company product

All trademarks are property owned by Chevron Africa-Pakistan Services (Proprietary) Limited or Chevron Intellectual Property LLC and licensed to Astron Energy Proprietary Limited.

CLRTYMCHNEOIL/SA/PDSv2_04/02/2018

© 2018 Chevron Lubricants used under license. All rights reserved.