

# Clarity<sup>®</sup> Machine Oils

Premium Quality Machine Oil



## Product description

**Clarity Machine Oils** are premium quality machine oils designed to meet the critical demands of circulating systems in industrial equipment.

## Customer benefits and product features

### Customer benefits

- **High temperature stability**  
Contains an effective oxidation inhibitor to protect the oil at elevated ambient operating temperatures.
- **Long lubricant life**  
A well-balanced additive package and high quality base oils help minimize breakdown and maximize oil life.
- **Protection against wear**  
Extreme pressure and ashless antiwear additives provide good FZG and Timken performance.
- **Excellent water separability**  
Permits rapid separation of water in circulating oil system reservoirs, reducing the chance of premature filter plugging and increased metal-to-metal contact.
- **Pall wet filterability**  
Provides good wet aged filtration with low micron filters.
- **Environmental sensitivity**  
Ashless formulation facilitates reclaiming and recycling efforts. Nontoxic to aquatic species as determined by LC-50 testing of this or similar formulations.

### Product features

- Clarity Machine Oils are formulated with an ashless extreme pressure additive package that includes rust, oxidation, and foam inhibitors to provide long lubricant life and minimize deposit formation. The ashless formulation facilitates reclaiming and recycling of circulating oils.
- Clarity Machine Oils have excellent water separating ability and good wet filterability with fine porosity oil filters, as demonstrated by the Pall Filterability Test.

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## Applications

- The Clarity<sup>®</sup> Machine Oil series is recommended for use in circulating systems of industrial equipment as well as gear boxes, including wet-end systems, dryer bearings, and calender stacks in paper machine systems.
- Clarity Machine Oils have been used successfully in the lubrication of many types of paper machine equipment, including Valmet and Beloit paper machine equipment.
- In addition, Clarity Machine Oils provide good filtration performance in the Pall Filterability Test using low micron filters.

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## Typical test data

### CLARITY<sup>®</sup> AW

ISO Grade	100	150	220	320
Product Code	540593	540594	540595	540596
Flash Point, COC, °C	240	246	249	248
Pour Point, °C	-15	-15	-15	-12
Viscosity, mm <sup>2</sup> /s @ 40°C	95.0	143	209	304
mm <sup>2</sup> /s @ 100°C	11.0	14.6	18.4	23.5
Viscosity Index	101	101	97	98
Timken OK Load, lb	60	60	60	60
FZG Failure Load Stage, DIN 51354	>12	>12	>12	>12
Oxidation Stability, Hrs to 2.0mg KOH/g acid Number ASTM D943	>4,500	4,500	4,000	3,000
Minutes to 25psi pressure drop ASTM D2272	357	367	375	345

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

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