

## CIRCULATION OIL

### Product Description

**Circulation Oil** is a high-quality, oxidation-stable mineral oil, specifically engineered for use in centralized lubrication and circulating systems. It is blended with refined base oils and advanced inhibitors for oxidation, rust, and foam, offering reliable performance and long system life.

Provides:

- Clean system operation
- Fast air release
- Reliable lubrication under continuous flow
- Efficient separation from water and contaminants

### Product Features & Benefits

- **Oxidation Stability:** Ensures long oil life in high-speed rotating systems with minimal sludge formation.
- **Excellent Rust & Corrosion Inhibition:** Protects critical components in moist and humid environments.
- **Rapid Air Release & Low Foam:** Ensures continuous oil film integrity and smooth operation.
- **Demulsibility:** Separates water quickly, maintaining lubrication performance even in wet conditions.
- **Versatile Application:** Suitable for use in both horizontal and vertical circulation systems.

### Application

- Centralized lubrication systems
- Industrial circulating systems for bearings and gear trains
- Light-duty gear systems (not requiring EP)
- Compressors, vacuum pumps, and fans
- Paper machine journals and calender stacks

### Meets or Exceeds

- DIN 51517 Part 2 CL
- ISO 6743-6 CKB
- ISO 6743-4 HL
- Cincinnati Machine P-38 / P-55 / P-57 (depending on viscosity)
- Denison HF-1 (where applicable)

### Health & Safety

- Store below 45°C in sealed containers away from moisture and direct sunlight
- Do not mix with other oils or additives unless approved
- Use clean tools and dispensing systems
- Refer to SDS for safety and environmental guidelines

### Typical Properties

Property	Method	VG 32	VG 46	VG 68	VG 100
Density @ 15°C (g/cm <sup>3</sup> )	ASTM D4052	0.865	0.870	0.875	0.880
Kinematic Viscosity @ 40°C (mm <sup>2</sup> /s)	ASTM D445	32	46	68	100
Kinematic Viscosity @ 100°C (mm <sup>2</sup> /s)	ASTM D445	5.4	6.8	8.9	11.2
Viscosity Index	ASTM D2270	≥95	≥95	≥95	≥95
Flash Point (°C)	ASTM D92	≥210	≥215	≥220	≥230
Pour Point (°C)	ASTM D97	-18	-15	-15	-12
Rust Test (A & B)	ASTM D665	Pass	Pass	Pass	Pass
Foam Test (Seq I/II/III, ml)	ASTM D892	Pass	Pass	Pass	Pass
Demulsibility (mins @ 54°C)	ASTM D1401	≤30	≤30	≤30	≤30

