

# Syn Circulating Oil

100% Synthetic



## Features & Benefits

- 100% PAO Synthetic based
- Effective oxidation and corrosion inhibitors
- High stability
- Excellent demulsibility
- Wide operating temperature range
- Excellent low-temperature fluidity
- Resists foaming
- Non-corrosive

**SYN CIRCULATING OIL** are blended using polyalphaolefin (PAO) synthetic hydrocarbon fluid and contain very effective oxidation and corrosion inhibitors. These oils have excellent oxidation and thermal stability. They have excellent demulsibility characteristics, separating rapidly from water. They also show excellent air-release properties and excellent foam resistance.

**SYN CIRCULATING OIL** is recommended for use in light duty (no EP) reduction gears and circulating oil systems. Their higher cost makes them particularly suited to those applications where their extended life, high temperature stability or low temperature fluidity can be used to advantage.

**SYN CIRCULATING OIL** is an excellent lubricant for extended life in the dryer bearing lubrication systems of paper machines that do not need anti-wear or extreme pressure ability in the oil, as well as other industrial mill machinery such as gearboxes, centrifugal pumps, vacuum pumps and blowers.

**SYN CIRCULATING OIL** will provide superior lubrication in heavily-loaded or slow-speed gear reducers.

**SYN CIRCULATING OIL** has a high natural viscosity index (VI) and so gives an extended operating temperature range compared to the equivalent grades of mineral oil. Grade for grade they allow colder starts for machinery that has to operate outside or in un-heated plant locations. They also retain their viscosity better at high temperatures, which directly improves the lubricating film.

## Typical Results

Application/ Performance	
Cincinnati Milacron P-38, P-55 and P-57	X
General Electric GEK 32568, GEK 107395, GEK 36506	X
Siemens TLV 9013 04	X
Alstom HTGD 90 117	X
Solar Turbine ES9-224	X
DIN 51524-1, DIN 51515-1	X
Parker Denison HF-0 Bench Tests	X
AIST 125	X
AGMA 9005 E02-R0	X

ISO GRADE	68	100
AGMA GRADE	2	3
VISCOSITY (D445)		
cSt @ 40°C	67.7	99.2
cSt @ 100°C	10.6	14.1
VISCOSITY INDEX (D2270)	145	146
POUR POINT (°C) (D97)	-36	-35
FLASH POINT (°C) (D92)	276	278
OXIDATION LIFE HRS. (D943)	2500+	2500+
TOTAL ACID NUMBER (D974)	0.15	0.30
DENSITY @ 15°C kg/L (D4052)	0.8496	0.8507
DEMULSIBILITY @ 54.4°C, mins to 40 40-0 (D1401)	40	30

## Sizes & Order Codes

SYN Circulating 68	SYN Circulating 100
18.9 L Pail/5 US GAL F0079540	18.9 L Pail/5 US GAL F0103540



Blending & Packaging

www.irvingblend.com  
1.800.574.5823

Supporting data available to demonstrate appropriate performance. Check with your sales representative for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet supersedes any previous version prior to 03-20-2018