

# CIRCULATING OIL

## 32, 100, 150 & 220

### DESCRIPTION

Circulating Oil is premium quality, solvent refined, high viscosity index and mineral oils specially chosen for their ability to provide superior lubrication in a wide range of industrial applications.

This product is formulated with superior base oils and contains oxidation and rust inhibitors, defoamers and anti-wear additives. It is a high quality circulating oil and general purpose lubricant. It has the ability to rapidly separate from water, prevention of emulsion and sludge build up, which hampers lubricating efficiency. It has marked resistance to foaming and good air release which is important in circulation systems.

### APPLICATION

It is primarily used for continuous recirculation where maintenance factors ensure low leakage losses. Specialized uses include hydraulic systems, certain marine turbines as well as their associated reduction gears, These oils find application in bearings and industrial enclosed spur or bevel gears, provided EP is not required, Circulation oil applications include, ring collar and chain-oiled bearings, splash oiling and bath systems. It is particularly suited to the lubrication of antifriction bearings of paper mill dryer rolls, plastic film calendars and paper corrugators where their excellent resistance to the formation of harmful deposits produces outstanding benefits.

- Plain and rolling element bearings
- Enclosed spur, helical, bevel & worm gearboxes where a non-additive mineral oil approved by the gear manufacturer
- Machine tool circulatory systems
- May be used in industrial applications where loadings and temperatures are moderate

### PERFORMANCE FEATURES

- Good oxidation and thermal stability:
- Natural resistance to the formation of sludge and other harmful products of oxidation.
- Long oil life.

### Water shedding properties:

Circulating oils have excellent water separation properties. Excess water can be drained easily from lubrication systems. (Water can greatly accelerate surface fatigue on gear and bearing interfaces and promote ferrous corrosion on all internal surfaces. Water contamination should be avoided or removed as quickly as possible after occurrence).

### High Viscosity Index:

Minimal change of oil viscosity over the operating temperature range.

### KEY PROPERTIES

CIRCULATING OIL	32	100	150	220
Viscosity Grade (ISO 3448)	32	100	150	220
Viscosity @ 40 °C	32	100	150	220
Viscosity @ 100 °C (IP 71)	5.4	19.20	11.20	14.80
Viscosity Index (IP 226)	100	95	95	95
Density 20 °C kg/l (IP 365)	0.868	0.877	0.883	0.887
Flash Point °C (Min)	222	225	243	243
Pour Point °C (Max)	-12	-9	-9	-9