

PRODUCT SPECIFICATIONS & TECHNICAL DATA

Premium industrial bearing and circulating oil

PETRO-FLO BEARING AND CIRCULATING OIL are formulated with highly refined paraffinic mineral oils for the lubrication of heavy duty industrial bearings and circulating systems. The lighter viscosity grades (ISO 32, 46, 68 and 100) typically are recommended for use in rotary air compressors, circulating pumps, vacuum pumps and electric motor bearings operating under severe-service conditions or at extreme temperatures. The heavier viscosity grades (ISO 150, 220, 320, 460, 570 and 680) typically are recommended for use in lightly loaded gearboxes that do not require an extreme-pressure gear oil. The medium viscosity grades (ISO 150 and 220) also are recommended for lubrication of the upper cylinders of gas compressors handling natural gas or process gas.

Applications

- Rotary air compressors, plain and rolling-element bearings operating at very high or very low temperatures, lightly to moderately loaded enclosed industrial gearboxes that do not require an extreme pressure.
- Roll-neck bearings, circulating systems.
- Enclosed spur, helical, bevel and worm gearboxes where the use of a non-additive is approved by the equipment manufacturer.
- Morgan Construction and Danieli No-Twist® mill systems.
- Gear applications that require anti-wear performance without the use of zinc.
- Circulating systems serving high speed roller and plain bearings in no-twist finishing mills in both ferrous and non-ferrous applications.
- General lubrication of reduction gears and bearings.

Features/Benefits:

- Long life in circulatory systems
- Excellent water shedding capability
- Recommended by gear box manufacturers
- Compatible with all seal materials and paints normally specified for use with mineral oils.
- Long bearing life
- Gear protection from scuffing
- Excellent oxidation and thermal stability for long service life
- Extended protection against rust and corrosion
- Excellent water separability properties
- Resistance to foam

PETRO-FLO BEARING AND CIRCULATING OIL Typical Physical Characteristics

Viscosity Grade		32	46	68	100	150	220	320	460	570	680	
Kinematic Viscosity												
	at 40°C	mm ² /s	32	46	68	100	150	220	320	460	570	680
	at 100°C	mm ² /s	5.3	6.7	8.5	11,1	14,5	19,3	24,3	31,3	32,2	37,1
Viscosity Index		103	103	103	103	103	103	103	103	103	100	100
Density at 15°C	kg/m ³	870	870	870	878	881	888	893	895	0,904	913	
Flash Point COC	°C	210	210	220	241	227	247	256	262	267	271	
Pour Point	°C	-12	-12	-9	-9	-7	-7	-6	-6	-6	-6	

The above analyses are typical inspections only and the finished product may vary from batch to batch.