



DURALIFE® PAO SYNTHETIC EXTREME PRESSURE INDUSTRIAL GEAR OILS

DURALIFE® PAO SYNTHETIC EXTREME PRESSURE INDUSTRIAL GEAR OILS are manufactured from Polyalphaolefin base oils with specially selected additives for use in all kinds of enclosed gearing as well as plain and rolling element bearings operating at high temperatures and under heavy or shock loads and low speeds . Extreme pressure additives to give minimum gear wear, maximum load carrying capacity, corrosion protection, and outstanding resistance to high temperature sludging.

APPLICATIONS :

DURALIFE® PAO SYNTHETIC EXTREME PRESSURE INDUSTRIAL GEAR OILS are recommended for all types of industrial requiring EP gear oils such as the enclosed steel-on steel gear drives and speed reducers, ranging from small gearboxes to large, high-power units, especially in slow speed on industrial enclosed spur, railroad DC Traction motor drives, helical and bevel gear drives, metal rolling mills, cement mills, sugar mills, steel mills, quarries, metal process plants, chemical processing, metals and paper sectors, conveyors and mine hoists ,agitators, extruders, pressers, dryers, fans, mixers, pulpers, screens, pumps etc., and for a wide of marine applications include marine gearing including main propulsion, centrifuges, deck machinery such as winches, windlasses, cranes, turning gears, pumps, elevators and rudder carries.

They are also compatible with non-EP copper and its alloys and hence suitable for gearboxes and drives incorporating bronze components, such as worm wheels.

Meet the requirements of:

DIN 51517 Part 3

ANSI/AGMA 9005-D94 EP, 9005-E 02EP, 9005-F16

GB 5903-2011 CKD

ISO 12925-1 Type CKD

US Steel 224

David Brown S1.53.101

Hansen Transmissions

Cincinnati Milacron

Müller Weingarten equipment

BENEFITS :

- Excellent anti-wear, extreme pressure and load carrying properties leading to savings in both maintenance time and costs.
- Extend gear life due to high load carrying and outstanding ability to keep gear surfaces free of deposits.
- Fully compatible with standard seal, paint and hose material.
- Excellent thermal and oxidation stability.
- Superior demulsibility as it separate from water easily.

TYPICAL CHARACTERISTICS :

Test	Method	PO 100	PO 150	PO 220	PO 320	PO 460
API Gravity	ASTM D287	34.97	33.61	32.46	31.14	30.40
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.850	0.857	0.863	0.870	0.874
Viscosity @ 40°C, cSt	ASTM D445	100	150	220	320	460
@ 100°C, cSt		14.5	19.6	26	34.2	44.3
Viscosity Index	ASTM D 2270	150	150	150	155	155
Flash Point, °C (°F)	ASTM D92	225 (437)	230 (446)	230 (446)	240 (464)	240 (464)
Pour Point, °C (°F)	ASTM D97	-48 (-54)	-48 (-54)	-45 (-49)	-45 (-49)	-40 (-40)
F Z G Gear Test , Fail stage (A/8.3/90)	ISO 14635-1 / DIN 51354	>12	>12	>12	>12	>12
Foam Test Seq 1 , ml	ASTM D 892	0/0	0/0	0/0	0/0	0/0
Timken OK Load, lb	ASTM D 2782	85	95	95	95	95

Test	Method	PO 680	PO 1000	PO 1500	PO 3200
API Gravity	ASTM D287	29.29	28.39	28.03	27.49
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.880	0.885	0.887	0.890
Viscosity @ 40°C, cSt	ASTM D445	680	1000	1500	3200
@ 100°C, cSt		58.5	80	105	170
Viscosity Index	ASTM D 2270	160	160	160	160
Flash Point, °C (°F)	ASTM D92	245 (473)	245 (473)	245 (473)	250 (482)
Pour Point, °C (°F)	ASTM D97	-40 (-40)	-40 (-40)	-30 (-22)	-30 (-22)
F Z G Gear Test , Fail stage (A/8.3/90)	ISO 14635-1 / DIN 51354	>12	>12	>12	>12
Foam Test Seq 1 , ml	ASTM D 892	0/0	0/0	0/0	0/0
Timken OK Load, lb	ASTM D 2782	95	85	85	85

The above characteristics are average values based on recent production .Minor variations which do not affect product performance are to be expected in normal manufacture .

WARNING :

Continuous contact with used oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children.

Don't pollute. Conserve resources. Return used oil and bottle to collection centers

Reference SDS No 12085 database on our website at www.amtecol.com OR scan the code for a direct link

