



## **DURALIFE® SYNTHETIC BLEND EXTREME PRESSURE HEAVY DUTY INDUSTRIAL GEAR OILS**

**DURALIFE® SYNTHETIC BLEND EXTREME PRESSURE HEAVY DUTY INDUSTRIAL GEAR OILS** are formulated with a selected blend of PAO synthetic and high quality mineral base oils with Sulfur-phosphorus Extreme pressure additives to give minimum gear wear , maximum load carrying capacity, corrosion protection, and outstanding resistance to high temperature sludging.

### **APPLICATIONS :**

**DURALIFE® SYNTHETIC BLEND EXTREME PRESSURE HEAVY DUTY INDUSTRIAL GEAR OILS** are recommended for all types of industrial and mobile equipment requiring EP gear oils such as the enclosed gear drives and speed reducers, ranging from small gearboxes to large , high-power units on metal rolling mills, cement mills , sugar mills, steel mills, quarries, metal process plants, conveyors and mine hoists ,agitators, extruders, pressers ,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 suitable for chain cases , sprockets, slide guides, flexible couplings, and plain and rolling element bearings operating under severe or shock load conditions.

They are 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

AGMA 9005 - D94 EP , 9005 – E 02EP

ISO 12925-1 Type CKC/ CKD

US Steel 224

David Brown Type E

Hansen Transmissions

Cincinnati Milacron

Müller Weingarten equipment

### **BENEFITS :**

- Superior antirust , anti-wear and EP properties.
- Extend gear life due to high load carrying and outstanding ability to keep gear surfaces free of deposits.
- Excellent thermal and oxidation stability.
- Non corrosive steel, cast iron , copper ,and bronze.
- Superior demulsibility as it separate from water easily.

### **TYPICAL CHARACTERISTICS :**

<b>Test</b>	<b>Method</b>	<b>SBEP 68</b>	<b>SBEP 100</b>	<b>SBEP 150</b>	<b>SBEP 220</b>	<b>SBEP 320</b>
API Gravity	ASTM D287	28.39	27.49	26.25	25.72	25.55
AGMA #		2EP	3EP	4EP	5EP	6EP
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.885	0.890	0.897	0.900	0.901
Viscosity @ 40°C, cSt	ASTM D445	68	100	150	220	320
Viscosity Index	ASTM D 2270	116	104	101	101	101
Flash Point, COC, °C (°F)	ASTM D92	235 (455)	240 (464)	240 (464)	240 (464)	250 (482)
Pour Point, °C (°F)	ASTM D97	-35 (-31)	-30 (-22)	-30 (-22)	-25 (-13)	-25 (-13)
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
4-Ball EP Test, Load-wear index, kg Weld Point, kgD-2783	ASTM D 2783	49 400	49 400	47 400	47 400	48 350
4-Ball Wear Test, 20kg, 1 hr., 1800 rpm, 54°C ,Wear scar diameter, mm	ASTM D 2266	0.35	0.35	0.35	0.4	0.4
Timken OK Load , lb	ASTM D 2782	65	65	65	75	75

Test	Method	SBEP 460	SBEP 680	SBEP 1000	SBEP 1500
API Gravity	ASTM D287	24.85	23.14	21.47	20.65
AGMA #		7EP	8EP	8A EP	9EP
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.905	0.915	0.925	0.930
Viscosity @ 40°C, cSt	ASTM D445	460	680	1000	1500
Viscosity Index	ASTM D 2270	100	95	90	90
Flash Point, °C (°F)	ASTM D92	260 (500)	260 (500)	280 (536)	310 (590)
Pour Point, °C (°F)	ASTM D97	-15 (5)	-15 (5)	-12 (10.4)	-12 (10.4)
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
4-Ball EP Test, Load-wear index, kg	ASTM D 2783	54	49	55	55
Weld Point, kg		350	300	250	250
4-Ball Wear Test, 20kg, 1 hr., 1800 rpm, 54°C ,Wear scar diameter, mm	ASTM D 2266	0.4	0.4	0.45	0.45
Timken OK Load , lb	ASTM D 2782	80	80	70	70

*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 MSDS No 12036 database on our website at [www.amtecol.com](http://www.amtecol.com)*