



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

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

Molybdenum disulfide (MoS<sub>2</sub>) additive provides boundary protection, it is twice as slippery as graphite and forms an indestructible, long-lasting, solid lubricant film capable of withstanding pressures up to 500,000 psi, prevents metal-to-metal contact and thereby reducing friction and wear. The tacky property of products provides excellent adhesion performance due to the oil always sticks to metal surfaces.

### **APPLICATIONS :**

**DURALIFE® SYNTHETIC BLEND EXTREME PRESSURE HEAVY DUTY MOLY TACKY 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 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 :**

- Lasting lubrication for difficult applications where normal lubrication is not effective.
- Adhere to metal parts, resist centrifugal throw-off under heavy cutting and high speeds.
- Superior antirust , anti-wear and EP properties.
- Tackifier provides strong performance for adherence of oil film on metal surfaces.
- 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 :**

Test	Method	MoSBEPT 68	MoSBEPT 100	MoSBEPT 150	MoSBEPT 220	MoSBEPT 320
API Gravity	ASTM D287	27.50	26.10	25.70	23.15	22.65
AGMA #		2EP	3EP	4EP	5EP	6EP
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.890	0.898	0.900	0.915	0.918
Viscosity @ 40°C, cSt	ASTM D445	68	100	150	220	320
Viscosity Index	ASTM D 2270	115	110	110	100	100
Flash Point, COC, °C (°F)	ASTM D92	235 (455)	240 (464)	240 (464)	240 (464)	250 (482)
Pour Point, °C (°F)	ASTM D97	-30 (-22)	-27 (-16.6)	-25 (-13)	-23 (-9.4)	-21 (-6)
Rust Test (Salt Water) Rust Test (Distilled Water)	ASTM D 665	Pass Pass	Pass Pass	Pass Pass	Pass Pass	Pass Pass
Copper Strip Corrosion Test, 3hrs	ASTM D 130	1a	1a	1a	1a	1a
4 - Ball EP Test, weld point, kg	ASTM D 2783	250	250	250	250	250
4 – Ball Wear Test, Scar Diameter, mm	SATM D 2266	0.28	0.28	0.28	0.28	0.28
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	65	65	70	75	75

Test	Method	MoSBEP 460	MoSBEP 680	MoSBEP 800	MoSBEP 1000	MoSBEP 1500
API Gravity	ASTM D287	22.30	21.50	21.00	19.85	19.05
AGMA #		7EP	8EP	8A EP	8A EP	9EP
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.920	0.925	0.928	0.935	0.940
Viscosity @ 40°C, cSt	ASTM D445	460	680	800	1000	1500
Viscosity Index	ASTM D 2270	98	95	95	90	85
Flash Point, °C (°F)	ASTM D92	260 (500)	260 (500)	270 (518)	280 (536)	310 (590)
Pour Point, °C (°F)	ASTM D97	-15 (5)	-9 (15.8)	-9 (15.8)	-9 (15.8)	-9 (15.8)
Rust Test (Salt Water)	ASTM D 665	Pass	Pass	Pass	Pass	Pass
Rust Test (Distilled Water)		Pass	Pass	Pass	Pass	Pass
Copper Strip Corrosion Test, 3hrs		1a	1a	1a	1a	1a
4- Ball EP Test, weld point, kg	ASTM D 2783	250	250	250	250	250
4 – Ball Wear Test, Scar Diameter, mm	SATM D 2266	0.28	0.28	0.28	0.28	0.28
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	80	80	70	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 SDS No 12149 database on our website at [www.amtecol.com](http://www.amtecol.com)*