



# DURALIFE® POE SYNTHETIC BIODEGRADABLE HYDRAULIC FLUIDS

**Duralife® POE Synthetic Biodegradable Hydraulic Fluids** are full synthetic, nontoxic, high performance biodegradable hydraulic fluids, formulated with Polyol Esters and ashless additives for use in industrial and mobile applications such as: construction, mining, forestry, agriculture, marine industries and designed specifically for creating a safer workplace in environmentally sensitive areas. They also do not break down to form sludge or hydrolyze in the presence of water.

### APPLICATIONS:

**Duralife® POE Synthetic Biodegradable Hydraulic Fluids** are recommended for a wide variety of hydraulic systems operating at both low and high pressures, low and high temperatures. They also meet the demands of modern high pressure hydraulic systems upwards of 7500 psi and 220°F and hydraulic systems with servo valves, and all robotics.

They are especially recommended for use in equipment operating in areas subject to fire hazards, such as in steel mills, surface mines and foundries and for use in underground mining equipment.

They exceed the biodegradability requirements as defined by EPA 40 CFR, Part 792, OECD 301B and USTC PRO/BIO-BP 111-9 test methods.

### BENEFITS:

- Excellent thermal stability and superior filterability even in wet conditions over a wide temperature range.
- Good fire-resistance.
- Superior hydrolytic stability.
- Prevent rust and against wear and corrosion damage in hydraulic systems.
- Good antifoam to prevent oil saturation and system failure.
- Excellent resistance to sludge and deposits, maintains working components in clean operational condition.
- Quick release of entrained air.
- Special anti-scuff and anti-wear agents extend the lives of gear, vane, axial and radial piston pumps.
- Excellent compatibility with commonly used seals, hoses and metals.

### TYPICAL CHARACTERISTICS

Test	Method	POE HF 32	POE HF 46	POE HF 68	POE HF 100
API Gravity	ASTM D287	21.47	22.30	23.15	19.84
Specific Gravity @15.6°C(60°F)	ASTM D1298	0.925	0.920	0.915	0.935
Viscosity @ 40°C, cSt	ASTM D445	32.5	45.30	69.5	98.8
@ 100°C, cSt		7.03	9.11	13.20	12.50
Viscosity Index	ASTM D 2270	185	187	194	120
Flash Point, °C (°F)	ASTM D92	250(482)	290(554)	290(554)	266(511)
Pour Point, °C (°F)	ASTM D97	-48(-54)	-45(-49)	-45(-49)	-44(-47)
Biodegradability	OECD 310B	Pass	Pass	Pass	Pass
Aquatic Toxicity	OECD 203LC50>100mg/liter	Pass	Pass	Pass	Pass
F Z G Gear Test , Fail stage ( A/8.3/90 )	ISO 14635-1 / DIN 51354	>12	>12	>12	>12
Copper Corrossion	ASTM D 130	1b	1b	1b	1b
Foam Test	ASTM D 982	Pass	Pass	Pass	Pass
Rusting Test, synthetic seawater	ISO 7210 / ASTM D 665B	Pass	Pass	Pass	Pass

*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 Number 12115 database on our website at [www.amtecol.com](http://www.amtecol.com) OR scan the code for a direct link

