
Product Description

D-A HydraSafe FR is a premium fully synthetic, readily biodegradable AW hydraulic fluid that is also fire resistant. Utilizing the most advanced synthetic ester base fluids and additive chemistry, D-A HydraSafe FR provides exceptional equipment protection and extends equipment life. This biodegradable, non-toxic product delivers superior oxidation and thermal performance. It offers excellent anti-wear protection for both mobile and stationary hydraulic systems operating in environmentally conscious areas. The robust additive package also improves demulsification, corrosion protection, hydrolytic stability and greatly reduces foaming. The synthetic ester base fluids used in D-A HydraSafe FR offer improved biodegradability versus conventional base oils and white oils commonly used in environmentally sensitive products. It also provides greatly improved thermal and hydrolytic stability over triglycerides (vegetable oils). Broader operating temperature ranges and extended drains can be realized over almost all conventional and triglyceride based fluids.

D-A HydraSafe FR is suitable for use in hydraulic systems requiring a premium, biodegradable fire resistant fluid. It meets the performance requirements of many hydraulic and servo valve OEMs and it is also well suited for gears and bearings requiring mild EP protection. Agriculture, forestry, mining, dredging, off-shore platforms, tunneling, waste management and many other industries with environmental contamination sensitivities will benefit from the use of this product.

Product Features and Benefits

Limits wear in low and high pressure vane and piston pumps *for longer pump life and reduced operating cost.*

Provides wear control for steel, brass and bronze pump parts *resulting in excellent pump protection and longer equipment life.*

Can be used in both mobile and stationary hydraulic equipment *giving service flexibility and minimized lubricant inventory.*

Special rust and corrosion inhibitors *limit rusting of ferrous metals and corrosion of yellow metals.*

Environmentally friendly to *meet governmental regulations on hydraulic fluids used in construction near a water source.*

This biodegradable, non-toxic product *delivers superior oxidation and thermal performance.*

Extremely high flash point *provides fire resistance in case of hydraulic system leaks.*

NOTE: HydraSafe FR is a special order product. Allow extra lead time.

HydraSafe™ FR



Service Applications

AIST (US Steel) 127, 136
Cincinnati Milacron P-68, P-69, P-70
DIN 51524 Parts 1 and 2
Vickers I-286-S
Vickers M-2950-S

Biodegradability:

OECD 301B <28 days (ASTM D5864) "Readily biodegradable"

Typical Properties:

ISO Viscosity Grade	32	46	68
Viscosity @ 40°C, cSt	32.9	47.7	66.1
Viscosity @ 100°C, cSt	6.8	9.7	12.5
Viscosity Index	175	175	175
Pour Point, °F (°C)	-37 (-35)	-40 (-40)	-15 (-24)
Flash Point, °F (°C)	550 (288)	595 (314)	608 (320)
Specific Gravity @ 15.6°C/60°F	0.903	0.922	0.925
Rust, ASTM D665B	Pass	Pass	Pass
Copper Corrosion, D 130	1b	1b	1b
FZG, Last Pass Stage	12	12	12
Oxidation Stability, D943 Dry	<3000	<3000	<3000

To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823)
Or Fax orders to (317) 923-3884

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