

## Product Description

**D-A PresurFlo™ Dielectric Blue, Amber & Gold** hydraulic fluids are a premium quality, high viscosity index, anti-wear hydraulic oil with high dielectric strength (30 kV) for use in electrical service equipment, such as cherry pickers. D-A PresurFlo™ Dielectric Blue, Amber & Gold hydraulic fluids are designed for use in mobile hydraulic systems operating in environments subject to wide variations in ambient temperatures.

**D-A PresurFlo™ Dielectric Blue, Amber & Gold** hydraulic fluids are formulated to have both a high viscosity index as well as a low pour point for use over a wider temperature range than conventional anti-wear hydraulic oils. D-A PresurFlo™ Dielectric Blue, Amber & Gold hydraulic fluids offer the same outstanding wear, foam, and rust and oxidation protection as D-A PresurFlo, yet also offer superior flow properties and pumpability when used in mobile equipment operating in environments exposed to extreme temperature swings. The highly effective zinc dithiophosphate additive system provides excellent wear protection – ensuring long life for hydraulic pumps and motors.

## Typical Applications

The additive system satisfies the requirements for both high pressure industrial and mobile hydraulic systems which call for: Sundstrand, Vickers, and Racine, Denison HF-0 (Dielectric Amber, Gold), HF-1, and HF-2 (Dielectric Blue, Gold), Cincinnati Machine P-68 (Dielectric Amber), P-70 (Dielectric Gold), as well as Vickers M-2950-S and I-286-S. The Dielectric Amber exceeds the requirements of ISO 11158 HM specification. D-A PresurFlo™ Dielectric Blue, Amber and Gold are recommended for the following applications:

- Hydraulic elevators, hoists, and lifts
- Mobile, industrial, and marine hydraulic systems operating in cold weather or in locations subject to wide temperature fluctuations
- Electrical service equipment (cherry pickers), mobile construction equipment, and hydraulic control systems for machine tools and presses.

## Typical Properties

Dielectric Hydraulic Oils		Blue	Amber	Gold
ISO Viscosity Grade	<b>Test Method</b>	15	32	46
API Gravity, 60°F	ASTM D-4052	35.6	32.1	31.0
Density, lbs/gal (g/L)	Calculated	7.051 (845)	7.211 (864)	7.25 (868)
Viscosity, cSt @ 40°C	ASTM D-445	15.0	32.0	46
Viscosity, cSt @ 100°C	ASTM D-445	3.8	6.35	8.5
Viscosity, SUS @ 100°F	ASTM D-2161	82	163.0	234
Viscosity, SUS @ 210°F	ASTM D-2161	39	48.0	54
Viscosity Index	ASTM D-2270	155	155	162
Brookfield Viscosity, cP @ -40°C	ASTM D-2983	2,400	21,500	70,000
Pour Point, °F (°C)	ASTM D-5949	-81.4 (-63)	-59.8 (-51)	-49 (-45)
Flash Point, COC, °F (°C)	ASTM D-92	325 (162)	400 (204)	390 (198)
Color	ASTM D-1500	Blue	Amber	Gold
Dielectric Strength <sup>1</sup> , kV (min)	ASTM D-877	30	30	30

<sup>1</sup> Packaged product only. The dielectric strength will decrease if the oil becomes contaminated with dirt or water.

Product Part Numbers	55 Gal Drum	54962	54972	54982

### D-A Lubricant Company, Inc.

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