

# ALPHA-2 FLUID®

## Dielectric and Heat Transfer Fluid

Alpha-2 fluid is a dielectric and heat transfer oil for special applications. Made with 100% synthetic hydrocarbon oils, it is the highest quality oil that can be created with today's technology. Alpha-2 Fluid is compounded with the most advanced antioxidants available to slow the oxidation process at high temperatures, or when exposed to oxygen.

Alpha-2 Fluid has excellent heat transfer characteristics and low-temperature properties. Alpha-2 Fluid cools equipment better. It's compatible with normal mineral transformer oil and standard insulation materials. And it's biodegradable.

**APPLICATIONS:** Use Alpha-2 Fluid in any application for dielectric or heat transfer fluids where operating temperatures are very high, or where ambient temperatures may be very low. Alpha-2 cools equipment better than other fluids. Alpha-2's advanced base oils and oxidation inhibitors provide longer service life at high temperatures.

Alpha-2 Fluid is used in high temperature transformers, in ceramic polling applications, in overloaded transformers, in viscosity-dampened switchgear, and in very low-temperature applications.

### FEATURES:

- Alpha-2 fluid is **crystal clear** in color and **has no odor**.
- Alpha-2 fluid has a **high dielectric strength**.
- Alpha-2 fluid has an **excellent fire safety rating**
- Alpha-2 fluid **cools equipment efficiently**
- Alpha-2 fluid is an **excellent switching medium**
- Alpha-1 fluid is **compatible with** mineral oil and PCB fluids.

### TYPICAL CHARACTERISTICS

| Characteristic & ASTM method        | Alpha-2 Fluid | ASTM Transformer Oil Specification |
|-------------------------------------|---------------|------------------------------------|
| Fire Point, D92, °C.                | <b>250</b>    | 165                                |
| Viscosity, D88, cSt. @ 100 °C       | <b>3.9</b>    | 3.0                                |
| Density @ 20 °C, g/cc               | <b>0.83</b>   | 0.86                               |
| Pour Point, D97, °C.                | <b>-65</b>    | -40                                |
| Appearance                          | <b>Clear</b>  | Yellow                             |
| Dielectric Breakdown, D1816, kV     | <b>58</b>     | 56                                 |
| Dissipation Factor, 100 °C, D924, % | <b>0.001</b>  | 0.01                               |
| Acid Value, D664, mg KOH/g          | <b>0.01</b>   | 0.02                               |
| Biodegradability (per BOD tests)    | <b>Yes</b>    | Some                               |

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