

# BETA FLUID®

## Fire Resistant Insulating Oil

Beta fluid is an insulating oil used to improve fire safety in transformers and switchgear. Beta fluid resists ignition by electrical arc or flame, yet maintains excellent electrical characteristics. Beta Fluid is 100% hydrocarbon and biodegradable.

Beta fluid is the industry standard for fire resistant dielectric oils. Used in applications worldwide, Beta fluid is an economical way to provide fire resistance to any equipment that uses mineral oil.

Beta fluid is blended from carefully selected petroleum oils. This guarantees compatibility with other dielectric fluids, including transformer oil, Alpha-1 Fluid, and fluids containing PCBs or solvents. Beta fluid meets all ASTM and IEEE Standards for fire resistant dielectric fluids made from petroleum. Beta fluid can be used in switchgear and in tapchangers mounted in transformers. You can use your standard maintenance procedures and equipment with Beta fluid. Beta fluid is the best choice for most applications for fire resistant fluids. Beta fluid provides a significant margin of fire safety to power equipment at a price that everyone can afford.

### APPLICATIONS:

Beta fluid can be used in any application for dielectric fluids. Beta fluid has been used in power and distribution transformers, transformer-rectifier sets, voltage regulators, and in loadbreak and tapchanger switches.

### FEATURES:

- Beta fluid has a **high dielectric strength**.
- Beta fluid has **excellent oxidation and heat stability**.
- Beta fluid is **biodegradable and non toxic**.
- Beta fluid is **completely compatible** with mineral oil.
- Beta fluid is an **excellent switching medium**.



### TYPICAL CHARACTERISTICS - Compared with ASTM D5222, Guide for High Firepoint Oils

<i>Characteristic &amp; ASTM method</i>	<i>Beta Fluid</i>	<i>ASTM Spec</i>
Fire Point, D92, °C.	308	304-310
Viscosity, D88, cSt. @ 40 °C	108	100-140
Density @ 20 °C, g/cc	0.86	0.87
Pour Point, D97, °C.	-24	-24
Color, ASTM units	L0.5	L1.5
Appearance	clear	clear
Dielectric Breakdown,D877	61	61
Dissipation Factor, 100 °C, D924, %	0.10	0.30
Acid Value, D664, mg KOH/g	0.01	0.01
Biodegradability (per BOD tests)	yes	yes

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