

Hatcol[®] 5005

Fire Resistant Transformer Fluid

Type

Formulated Polyol Ester Fluid

Description

Hatcol[®] 5005 is a fire resistant synthetic polyol ester dielectric coolant developed as a replacement for PCBs in original-fill or retro-filled transformers. The combination of low and high temperature properties make Hatcol[®] 5005 an ideal dielectric coolant for traction transformer applications. Additionally, this material is biodegradable, contains no halogens or silicones, and is essentially non-toxic.

Application

- PCB Replacement
- Dielectric Fluids
- Traction Transformers
- Biodegradable Applications

Features and Benefits

- Efficient Convection Cooling
- Fire Resistant (Fire Point > 300 °C)
- Low Temperature Fluidity
- Biodegradable
- Fully compliant with IEC 61099



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Technical Data*

PROPERTY	UNITS	SPECIFICATIONS	TYPICAL VALUES	METHOD
Color, ASTM	-	1.5 max	L1.0	ASTM D-1500
Appearance	-	Bright, Clear Liquid	Pass	Visual/QL-4099
Dissip. Factor (25 °C, 60 Hz)	%	0.10 max	0.04	ASTM D-924
Fire Point	°C	302 min	306	ASTM D-92
Viscosity @ 100 °C	cSt	5.3-5.9	5.6	ASTM D-445
Viscosity @ 40 °C	cSt	28.0-31.0	30	ASTM D-445
Total Acid Number	mgKOH/g	0.05 max	0.01	ASTM D-664/974mod
Pour Point	°C	-40 max	-50	ASTM D-97/5950
Water Content	ppm	100 max	60	ASTM D-1533
Density @ 15.6 °C	lbs/gal	Report	8.14	ASTM D-4052

* Data provided are guideline values only

Additional Information

PROPERTY	UNITS	TYPICAL VALUES	METHOD	EQUIV. METHOD
Viscosity @ 150 °C	cSt	2.6	ASTM D-445	ISO 3104
Viscosity @ -10 °C	cSt	500	ASTM D-2532	ISO 3104
Viscosity @ -20 °C	cSt	1400	ASTM D-2532	ISO 3104
Flash Point	°C	270	ASTM D-92	ISO 2592
Dielectric Strength (25 °C)	kV	48	ASTM D-1816	IEC 60156
Dissip. Factor (100 °C, 60 Hz)	%	<1.0	ASTM D-924	IEC 60247
Dielec. Constant (25 °C, 60 Hz)	-	3.2	ASTM D-924	IEC 60247
Biodegradability	%	63.3	ASTM D-5864	OECD 301B



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Packaging

- Bulk
- Totes
- Drums
- Smaller sizes (1-20 kg) may be available
- Samples are available upon request

Storage conditions

Refer to the SDS. Esters may absorb moisture from the air. Store at room temperature in a tightly sealed container. Expected shelf life is 36 months when stored and handled as recommended.

Handling

Refer to the SDS for product-specific instructions. Wear appropriate personal protective equipment and follow good industrial hygiene practices.

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