

Castrol ON Immersion Cooling Fluid DC 20

Immersion Cooling Fluid

Description

Castrol ON Immersion Cooling Fluid DC 20 is a synthetic hydrocarbon based dielectric coolant.

Application

Immersion Cooling Fluid DC20 is a single phase coolant designed for use in electrical/electronic cooling systems. It has excellent flow properties and thermal properties. This product also provides a superior oxidative stability, excellent dielectric properties, low temperature properties and excellent hydrolytic stability.

Advantages

- Low viscosity fluid providing excellent flow properties .
- Excellent thermal properties.
- Superior oxidative stability, low temperature properties and excellent hydrolytic stability.
- Excellent dielectric properties.
- Compatible with most commercially available elastomers.

Typical Characteristics

Name	Method	Units	ON Immersion Cooling Fluid DC 20
Viscosity, Kinematic @ 0°C	ASTM D445	mm ² /s	19.8
Viscosity, Kinematic @ 20°C	ASTM D445	mm ² /s	9.2
Viscosity, Kinematic @ 40°C	ASTM D445	mm ² /s	5.1
Viscosity, Kinematic @ 100°C	ASTM D445	mm ² /s	1.7
Density @ 15,6 °C / 60 °F	ISO 12185	kg/m ³	797
Pour Point	ISO 3016	°C / °F	-57 / -70
Thermal conductivity @ 40 °C / 104 °F	ASTM D7896	W/mK	0.135
Specific heat capacity @ 40 °C / 104 °F	ASTM E1296	kJ/kgK	2.2
Electrical conductivity @ 25 °C / 77 °F	DIN 51111	pS/m	<35
Dielectric strength @ 25 °C / 77 °F	IEC 60156	kV/mm	>14
Dielectric breakdown voltage @ 25 °C / 77 °F	IEC 60156	kV/mm	>35
Dielectric constant @ 25 °C / 77 °F	ASTM D924		2.06
Flash Point, COC	ASTM D92	°C / °F	169 / 336
Fire Point, COC	ASTM D92	°C / °F	191 / 376
Particle Count			15/12/07
Appearance			Clear & Bright
Colour (ASTM)	ASTM D1500		<0.5

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