

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 DC 20 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.
- Zero Global Warming Potential (GWP) cooling solution.

Typical Characteristics

Name	Method	Units	Castrol ON DC 20
Density @ 15.6°C / 60°F	SO 12185 / ASTM D4052	kg/m³	797
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm²/s	5.1
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm²/s	1.7
Kinematic Viscosity @ 20°C / 104°F	ISO 3104 / ASTM D445	mm²/s	9.2
Kinematic Viscosity @ 0°C / 104°F	ISO 3104 / ASTM D445	mm²/s	19.8
Kinematic Viscosity @ -40°C / 104°F	ISO 3104 / ASTM D445	mm²/s	255
Pour Point	ISO 3016 / ASTM D97	C/°F	<-40 / <-40
Flash Point - open cup method	ISO 2592 / ASTM D92	C/°F	169 / 336
Fire Point	ISO 2592 / ASTM D92	C/°F	179 / 354
Autoignition temperature	ASTM E659	C/°F	290
Copper corrosion, 3 hrs@100°C/212°F	ISO 2160 / ASTM D130	Rating	1b
Sulphur content	DIN EN ISO 20846	ppm	<1
Breakdown Voltage	DIN EN 60156	KV	>35
Dielectric strength	DIN EN 60156	kV/mm	>14
Conductivity @ 25°C / 77°C	ASTM D2624	pS/m	<35
Dielectric constant @ 25°C / 77°C	ASTM D924	-	2.06
Vapour Pressure @20°C / 68°F @40°C / 104°F @60°C / 140°F	Ebulliometer	Pa	0.021 0.160 0.927
Specific Heat @40°C / 104°F	ASTM D7896	kJ/kgK	2.08
Thermal conductivity @40°C / 104°F	ASTM D7896	W/mK	0.135
Particle Count (at filling point)	ISO 4406	-	15/12/07

Container Sizes

Castrol ON: DC 20 can be supplied in the following container sizes:

- 20-litre UN plastic drums. Max. of 50-no. 20L drums per pallet.
- 208-litres UN plastic drums. Max. of 4-no. 208L drums per pallet.
- 1000-litre UN Intermediate Bulk Containers
- 25,000-litre Tanker-truck loads

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.



Official Partner



DC Cooling Solutions - UK & Ireland distributor and support provider for Castrol ON data centre products

Europa Way, Swansea West Business Park SA5 4AJ t. 0800 888 6848 e. info.uk@DCcoolingsolutions.com www.dccoolingsolutions.com

A trading division of Liquitherm Technologies Group Ltd. | Registered in England & Wales Number 03651123