

Castrol ON Immersion Cooling Fluid DC 15

Immersion Cooling Fluid

Description

Castrol ON Immersion Cooling Fluid DC 15 is a synthetic hydrocarbon based dielectric coolant

Application

Immersion Cooling Fluid DC 15 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 15 |
|--|--------------------------------------|---------|------------------|
| Density @ 15.6°C / 60°F | SO 12185 / ASTM D4052 | kg/m³ | 835 |
| Kinematic Viscosity @ 100°C / 212°F | ISO 3104 / ASTM D445 | mm²/s | 2.2 |
| Kinematic Viscosity @ 40°C / 104°F | ISO 3104 / ASTM D445 | mm²/s | 7.5 |
| Kinematic Viscosity @ 20°C / 104°F | ISO 3104 / ASTM D445 | mm²/s | 14.7 |
| Kinematic Viscosity @ 0°C / 104°F | ISO 3104 / ASTM D445 | mm²/s | 35.9 |
| Pour Point | ISO 3016 / ASTM D97 | C/°F | -41 / -42 |
| Flash Point - PMCC | ISO 2719 / ASTM D93 | C/°F | 154 / 309 |
| Flash Point - COC | ISO 2592 / ASTM D92 | C/°F | 166 / 330 |
| Breakdown Voltage | IEC 60156 | kV | >25 |
| Dielectric strength | IEC 60156 | kV / mm | >10 |
| Electrical conductivity @ 25°C / 77°F | DIN EN ISO 60247 mod. Flucon Epsilon | pS/m | <50 |
| Dielectric constant (permittivity @ 25°C / 77°F) | DIN EN ISO 60247 mod. Flucon Epsilon | - | 2.09 |
| Specific Heat @ 40°C / 104°F | ASTM E1269 | kJ/kg.K | 2.24 |
| Thermal conductivity @ 40°C / 104°F | ASTM D7896 | W/m.K | 0.126 |
| Particle Count (at filling point) | ISO 4406 | - | 15/12/09 |
| Appearance | | | clear & bright |
| Colour (ASTM) | ASTM D1500 | - | <0.5 |

Container Sizes

Castrol ON: DC 15 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

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