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Mobil COOLANOL™

ExxonMobil Aviation , United States

Product Description

Mobil COOLANOL™ silicate ester synthetic dielectric heat transfer fluids are designed to meet the special needs of sensitive electronic components and environmental control systems in aircraft, missiles and spacecraft.

The proven quality and reliability of Mobil COOLANOL is an important additional safeguard against costly and potentially catastrophic failure of critical airborne electrical equipment.

Features and Benefits

COOLANOL is specifically intended for liquid circulating systems (dynamic liquid phase) found in high-density electronic packages in aerospace and military applications. Such systems are in wide use because of their excellent heat transfer efficiency. COOLANOL should not be used in vaporizing (boiling liquid) systems.

Superb High and Low Temperature Stability

Versatile and Simple to Handle

Manufactured under Stringent Quality Control

Oxidative Stability

Radiation Resistance

Lubricity

Applications

To select the proper COOLANOL fluid for a given application, first determine the upper and lower temperature parameters of the application.

- Coolanol 20: (-101 - 149 °C / -150 – 300 °F)
- Coolanol 25R: (-54 - 149 °C / -65 – 300 °F)

Properties and Specifications

Property	COOLANOL 20	COOLANOL 25R
Acid Number, mgKOH/g, ASTM D664	0.02	0.01
Appearance, Visual	Clear	Clear to Amber
Dielectric Constant, ASTM D924	2.5	2.6
Flash Point, Cleveland Open Cup, °F, ASTM D92	< 230	< 330
Kinematic Viscosity @ -65 F, mm2/s, ASTM D445	44	240
Kinematic Viscosity @ 0 F, mm2/s, ASTM D445		23
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445		1.6
Kinematic Viscosity @ 100 F, mm2/s, ASTM D445	2.05	4.2

Property	COOLANOL 20	COOLANOL 25R
Kinematic Viscosity @ 210 F, mm2/s, ASTM D445	0.94	1.62
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445		4
Specific Gravity, 77 F/77 F, ASTM D4052	0.887	0.893

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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For additional technical information or to identify the nearest U.S. ExxonMobil supply source, call 1800 662-4525.
http://www.exxonmobil.com

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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