

Cargill

NatureCool™

Immersion Cooling Fluid

The next generation, plant based single-phase immersion cooling fluid.



Nature derived

- Derived from >90% vegetable oil, a renewable resource
- Readily biodegradable in as little as 10 days
- Non-toxic to humans, soil and water



Superior fire safety

- 325°C flash point
- Won't self ignite, flames out after heat source is removed



More sustainable*

- CO2 neutral
- Global Warming Potential of zero



More efficient cooling

- 10% higher heat capacity than synthetics

*Compared to synthetics and bioderived hydrocarbons

Cargill Bioindustrial
Box 5700
Minneapolis, MN 55443
+1 800-842-3631
www.naturecool.com

Cargill® Helping
the world
thrive

Cargill NatureCool™ 2000 Immersion Cooling Fluid

The biodegradable, high-performing and fire-safe choice for immersion cooling dielectric fluid.

Product Description: Bio-based immersion liquid for use as a dielectric coolant.

Material: >90% natural ester vegetable derived product - renewable raw material source.

Typical Properties:

Property	Typical	Units of Measure	Reference Test Method
Appearance	Teal, free from sediment and suspended matter	N/A	N/A
Viscosity at 40 °C	31	mm ² ·s ⁻¹	ASTM D445
Viscosity at 60 °C	19	mm ² ·s ⁻¹	ASTM D445
Viscosity at 80 °C	12	mm ² ·s ⁻¹	ASTM D445
Fire Point (by COC)	355	°C	ASTM D92
Flash Point (COC)	325	°C	ASTM D92
Density at 20 °C	0.9206	(g/mL)	
Specific Heat at 60 °C	2.3076	(kJ/kg°K)	
Thermal Conductivity at 20 °C	0.1644	(W/mK)	
Volume Expansion at 20 °C	0.00073066	(1/°C)	
Breakdown Voltage	> 35 kV	(kV, 2.5 mm gap)	
Acid Value	< 0.06	(mg KOH/g)	
Biodegradability	> 99	%	
Bio-derived Content	> 90	%	
Global Warming Potential	0	%	

Material Compatibility: It is recommended to verify the chemical compatibility for each application. Some restrictions may exist with materials such as PVC's, certain silicone rubber formulations, and polyurethanes.

Storage: Store indoors in the original, closed container; out of direct sunlight at temperatures between 0 to 40 °C.

All of the above product information is, to our best knowledge, true and accurate. However, since the conditions of use of this information or any material supplied are beyond our control, all recommendations or suggestions are made without guarantee, express or implied on our part. We disclaim all liability in connection with the use of the information contained herein or otherwise. Nothing contained herein shall be construed to infer freedom from patent infringement. We disclaim any implied warranty or merchant ability and any implied warranty of fitness for a particular purpose. The laws of the State of Minnesota, USA, are incorporated into and are to govern the terms of warranties.

©2022, Cargill, Incorporated. All rights reserved.