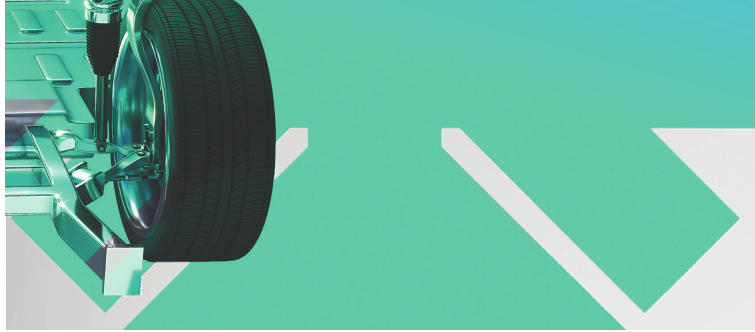


QUARTZ

EV FLUID



Quartz EV-Battery D

Cell-Shield / F18-10999

Quartz EV-Battery D is a range of dielectric fluids specifically designed for **lithium battery immersion cooling technology**. These fluids offer a high level of cooling performance allowing the cells to accept high charge currents and reduce the risk of thermal runaway propagation of a lithium battery.

Physical characteristics

CUSTOMER BENEFITS



High cooling efficiency with a low volume of fluid



Provide high level of resistance to oxidation



Protect against the risk of fire and cell thermal runaway propagation thanks to a very high thermal stability of the fluids



Preserve the environment and risk of injury by an absence of fluid toxicity

		Method	Unit	Value
Resistivity	30°C	ASTM D1169	GΩm	> 5
	60°C			> 5
	80°C			> 4
	100°C			> 1
Kinematic Viscosity	-40°C	ASTM D7042	mm ² /s	173
	-25°C			56
	0°C			15
	10°C			11
	25°C			6.6
	40°C			4.6
	60°C			3.0
	100°C			1.7
Heat Capacity	-25°C	ASTM E1269	J/(kg.K)	1760
	0°C			1840
	10°C			1880
	25°C			1940
	40°C			2000
	60°C			2070
	100°C			2220
Thermal Conductivity	25°C	ASTM D7896	mW/m.K	111
	40°C			109
	60°C			106
	100°C			100
Density	0°C	ASTM D7042	kg/m ³	869
	25°C			851
	50°C			833
	100°C			797
Pour Point		ASTM D97	°C	< -60
Flash Point		ASTM D92	°C	> 154
Auto-Inflammation Temperature		ASTM E659	°C	> 403
Hot Plate Resistance		Internal	°C	> 565
Biodegradability		OECD 301/306	-	No



More data available upon request
Samples available