

Q8 Farabi

high performance cable fluid

Description

Q8 Farabi is a high performance cable fluid based on low viscosity synthetic alkylbenzenes. The product has high resistance to gassing under electrical stress. It has outstanding low pour point and low temperature properties. In addition Q8 Farabi also offers excellent energy efficiency due to its low viscosity.

Applications

Q8 Farabi is suitable as dielectric fluid in convection and forced-cooled pipe cable systems. The product is also suitable for impregnation of hollow-core AC cables. In addition the product is also recommended for underground cable applications.

Specifications & Approvals

AEIC	CS 31-95	IEC	60867
Cable Oil	Type I		

Properties

	Method	Unit	Typical
Physical characteristic	IEC 60867	-	Clear colourless fluid with no suspended matter or sediment
Density, 20 °C	ISO 12185	kg/dm ³	0.870
Colour	D 1500	-	<1.5
Kinematic Viscosity, 20 °C	D 445	mm ² /s	7.6
Kinematic Viscosity, 40 °C	D 445	mm ² /s	4.3
Kinematic Viscosity, 60 °C	D 445	mm ² /s	2.7
Flash Point, COC	D 92	°C	>130
Flash Point	ISO 2592	°C	140
Pour Point	ISO 3016	°C	< -65
Water content	-	%	<0.005
Water content	IEC 60614	mg-kg	<50
Chlorine	ASTM D 6443	% mass	<0.003
Chlorine	ASTM D 6443	mg-kg	<10
Chlorine	ASTM D 4929	mg-kg	<10
Corrosive Sulfur	D 1275		Non corrosive
Corrosive Sulfur	DIN 51353		Non corrosive
Corrosive Sulfur	IEC 62535		Non corrosive
Neutralisation Value	IEC 867	mg KOH/g	<0.03
Acidity	IEC 62021	mg KOH/g	<0.01
Additive	IEC 60666	%	<1.0
Dielectric Dissipation Factor (DDF) at 100 °C	IEC 60247		0.0006 (<0.001)
Volume Resistivity, 90°C	IEC 60247	G.Ohm-m	1020
Dielectric Strength/Breakdown Voltage, 25°C	IEC 256	kV	>35 (drummed)
Breakdown voltage (Bulk)	IEC 60156	kV	53
Gassing tendency	IEC 60628	µl/min	-73
PCB content	IEC 61619	mg-kg	not detected

The figures above are not a specification. They are typical figures obtained within production tolerances.