

TOER II C50B (Electrical Insulating Oil)

This electrical insulating oil is produced from a severely hydrotreated naphthenic oil to meet the specification requirements defined in CAN/CSA-C50 for Class B Type II Mineral Oils. Products have very low pour points and excellent oxidation stability.

TEST DESCRIPTION		TEST METHOD	SPECIFICATIONS		MARKETING VALUES
			Min	Max	
Physical Properties					
1	Viscosity, cSt at -40°C	ASTM D 445		6000	4278
2	Viscosity, cSt at 0°C	ASTM D 445		76.0	64.2
3	Viscosity, cSt at 40°C	ASTM D 445		12.0	9.3
4	Specific Gravity, 15.6°C	ASTM D 4052		0.9060	0.8862
5	Flash Point, COC, °C	ASTM D 92	145		155
6	Color, ASTM	ASTM D 6045		0.5	L0.5
7	Pour Point, °C	ASTM D 5949		-40	-64
8	Interfacial Tension, 25°C, dynes, cm	ASTM D 971	40		51
Electrical Properties					
1	Dielectric Breakdown at 60Hz, Disk electrodes, kV	ASTM D 877	30		40
2	Dielectric Breakdown at 60Hz, VDE, kV(2.03-mm) gap	ASTM D 1816	35		47
3	Dissipation Factor at 60 Hz, 25°C, %	ASTM D 924		0.05	0.005
4	Dissipation Factor at 60 Hz, 100°C, %	ASTM D 924		0.30	0.075
Chemical Properties					
1	Oxidation Stability 164 hr.	Sludge, % by mass	ASTM D 2440	0.05	<0.01
		Total Acid Number, mg KOH/g		0.2	<0.01
2	Oxidation Stability (Rotating Bomb Test), minutes	ASTM D 2112	195		248
3	Oxidation inhibitor Content, wt%	ASTM D 2668	0.08	0.40	0.26
4	Corrosive Sulfur	ASTM D 1275 (B)	Noncorrosive		Noncorrosive
5	Water Content, ppm	ASTM D 1533		35	9
6	Neutralization Number, mg KOH/g	ASTM D 974		0.03	<0.01
7	PCB Content, ppm	ASTM D 4059		2	Not detected
Health and Safety Properties					
1	Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
2	Modified Ames Assay	ASTM E 1687	PASS		PASS
3	FDA Regulation	21 CFR 178.3620 (C)	PASS		PASS

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