TOER II (Electrical Insulating Oil)

This electrical insulating oil is produced from a severely hydrotreated naphthenic oil to meet the specification requirements defined in ASTM D 3487. Products have very low pour points and excellent oxidation stability.

MARKETING	SPECIFICATIONS		nts and excellent o	MINOR PROGRESSIVA			
VALUES	Max	Min	TEST METHOD -	ESCRIPTION	TEST DI		
			1		perties	Physical Pr	
59. 2	66. 0		ASTM D 445	Viscosity, SUS at 37.8℃			1
34. 0	36. 0		ASTM D 445	Viscosity, SUS at 98.9℃			2
64. 2	76. 0		ASTM D 445	Viscosity,cSt at 0℃			3
9. 3	12. 0		ASTM D 341	Viscosity, cSt at 40℃			4
2.3	3. 0		ASTM D 341	Viscosity,cSt at 100℃			5
0.8862	0. 9100		ASTM D 4052	Specific Gravity, 15.6℃			6
155		145	ASTM D 92	Flash Point, COC, ℃			7
L0. 5	0.5		ASTM D 6045	Color, ASTM			8
-64	-40		ASTM D 5949	Pour Point, °C			9
74. 7	84. 0	63. 0	ASTM D 611	Aniline Point,℃			10
51		40	ASTM D 971	Interfacial Tension, 25℃, dynes, cm			11
Clear&Bright		Clear&Bright	ASTM D 1524	Visual Examination			12
				s	Propertie	Electrical	
40		30	ASTM D 877	Dielectric Breakdown at 60Hz, Disk electrodes, kV			1
47		35	ASTM D 1816	Dielectric Breakdown at 60Hz, VDE, kV(2.03-mm) gap			2
0.005	0.05		ASTM D 924	Power Factor at 60 Hz,25℃,%			3
0.075	0.30		ASTM D 924	Power Factor at 60 Hz, 100℃,%			4
12	30		ASTM D 2300	Gassing Tendency, μL/min			5
					perties	Chemical Pr	
<0.01	0.1		ASTM D 2440	Sludge,% by mass	70.1		
<0.01	0.3			Total Acid Number, mg KOH/g	72 hr	0xidation 72	
<0.01	0.2			Sludge,% by mass	4043	Stability	1
<0.01	0.4			Total Acid Number, mg KOH/g	164 hr		
248		195	ASTM D 2112	Oxidation Stability (Rotating Bomb Test), minutes		2	
0.26	0.30	0.15	ASTM D 2668	Oxidation inhibitor Content, wt%		3	
Noncorrosive		Noncorrosive	ASTM D 1275 (B)	Corrosive Sulfur			4
9	35		ASTM D 1533	Water Content, ppm			5
<0.01	0.03		ASTM D 974	Neutralization Number,mg KOH/g			6
cted Not detected	Not detected		ASTM D 4059	PCB Content, ppm			7
				nvironment	ety and E	Health, Saf	
<3	3		IP 346	Polycyclic Aromatic Compounds, wt%			1
PASS		PASS	ASTM E 1687	Modified Ames Assay			2
PASS		(C) PASS	21 CFR 178.3620 (C	FDA Regulation			3
	Not detec		ASTM D 4059  IP 346  ASTM E 1687	PCB Content, ppm  Health, Safety and Environment  Polycyclic Aromatic Compounds, wt%  Modified Ames Assay			

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