

Forum Chemical Technical Specification Sheet

TRANSFORMER OIL T-1500

Product Data Sheet

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PROPERTY	UNIT	TEST METHOD	SPECIFICATION	TYPICAL VALUE
PHYSICAL PROPERTIES				
Kinematic Viscosity, 40°C, max.	cSt	ASTM-D 445	12	10,31
Kinematic Viscosity, 100 °C	cSt	ASTM-D 445		2,52
Kinematic Viscosity, -30°C , max.	cSt		1.100	997,3
Flash Point,min.	°C	ASTM-D 93	140	150
Pour Point, max.	°C	ASTM-D 97	40 -	-40
Colour, max.		ASTM-D 1500	0,5	<0,5
Aniline Point	°C	ASTM-D 611	63~84	78
Density, 15 °C	kg/l	ASTM-D 4052	0,865~0,910	0,884
Appearance, 15 °C		ASTM-D 4176	C&B	C&B
Refractive Index	20 °C	ASTM-D 1747		1,486
CHEMICAL PROPERTIES				
TAN - Total Acid Number, max.	mg KOH/gr	ASTM-D 974	0,015	0,008
Potentially Corrosive Sulphur		IEC 62535	non corrosive	non corrosive
Antioxidant Additive (DBPC)	%	IEC 60666	0,2 - 0,4	0,34
Metal Passivator Additives (TTAA)	mg/kg	IEC 60666	n.d.	n.d.
Water Content, max.	ppm	ASTM-D 1533	20	19
2-Furfural and related compounds content, max.	mg/kg	IEC 61198	0,1	n.d.
Alkali Content, max.			0,4	0,24
Content of BTA	mg/kg	IEC 60666	n.d.	n.d.
Content of TTA	mg/kg	IEC 60666	n.d.	n.d.
ELECTRICAL PROPERTIES				
Dielectric Dissipation Factor (DDF) at 90°C, max.		IEC 60247	0,005	0,001
Breakdown Voltage, 2.5mm, min.	Kv	VDE - 0370	50	>60
Interfacial Tension, 25°C, min.	dyn/cm	ASTM- D 971	40,0	43,0
Power Factor, 25 °C, max.	%	ASTM- D 924	0,05	0,006
Power Factor, 100 °C, max.	%	ASTM- D 924	0,30	0,180
OXIDATION STABILITY				
Oxidation Stability - 500h		IEC 61125 method C		
* Volatile acidity	mg KOH/gr			1,04
* Soluble acidity	mg KOH/gr			0,60
* Total acidity	mg KOH/gr			1,64
* Sludge	%			0,76
* DDF at 90°C				1,91
HEALTH, SAFETY AND ENVIRONMENT				
DMSO Extractible Compounds - PCA Content, max.	%	IP 346	3,0	2,23
PCB Content	ppm	DEXIL L- 2000	n.d.	n.d.

* C & B: Clear and Bright

* n.d.: not detectable