

PURAMAX Transformer Oil Type II Inhibited

PURAMAX Transformer Oil Type II Inhibited is a highly refined electrical insulating oil developed for equipment specifying a Type II inhibited oil. For use in oil-immersed transformers, capacitors, tap changers and circuit breakers.

Formulated with hydrotreated naphthenic base oils and an oxidation inhibitor to control sludge and deposit formation. It has a high dielectric strength and low power factor to provide excellent insulating properties.

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	Test Method	Minimum	Maximum	Typical Characteristics
Physical Properties				
Appearance	ASTM D1524			Clear & Bright
Color	ASTM D1500		0.5	L 0.5
Specific Gravity @ 15°C	ASTM D1298			0.880
Kinematic Viscosity, cSt @ 0°C	ASTM D445		76.0	68.77
Kinematic Viscosity, cSt @ 40°C	ASTM D445		12.0	10.06
Kinematic Viscosity, cSt @ 100°C	ASTM D445		3.0	2.45
Flash Point, °C	ASTM D92	145		184
Pour Point, °C	ASTM D97		-40	-51
Interfacial Tension @ 25°C, mN/m	ASTM D971	40		47.6
Aniline Point, °C	ASTM D611	63		85.3
Chemical Properties				
Neutralization Number, mgKOH/g	ASTM D974		0.03	0.01
Water Content, ppm	ASTM D1533		35	10
Corrosive Sulfur	ASTM D1275B	Non-Corrosive		Non-Corrosive
PCB Content, ppm	ASTM D4059	Not Detected		Not Detected
Oxidation Stability, Sludge wt. % @ 72 hrs.	ASTM D2440		0.15	0.05
Oxidation Stability, Neut #mg KOH/g @ 72 hrs.	ASTM D2440		0.5	0.34
Oxidation Stability, Sludge wt. % @ 164 hrs.	ASTM D2440		0.3	0.10
Oxidation Stability, Neut #mg KOH/g @ 164 hrs.	ASTM D2440		0.6	0.37
Inhibitor Content, wt %	ASTM D2668	0.25	0.3	0.268
Rotating Pressure Vessel Oxidation Test, mins.	ASTM D2112			92
Electrical Properties				
Dielectric Breakdown Voltage, @ 60Hz Disk Electrodes, kV	ASTM D877	30		53
Dielectric Breakdown Voltage, @ 60Hz VDE Electrodes, 1mm gap, kV	ASTM D1816	28		42.6
Dielectric Breakdown Impulse, kV	ASTM D3300	145		164
Gassing Tendency, μ L/min	ASTM D2300		30+	0.5+
Dissipation Factor (Power Factor) @ 25°C, %	ASTM D924		0.05	0.003
Dissipation Factor (Power Factor) @ 100°C, %	ASTM D924		0.30	0.164

Minor variations in test data are to be expected in normal manufacturing

***CAUTION:** To maintain optimum dielectric strength, oil must be kept clean and dry. A small amount of moisture contamination will significantly decrease the dielectric strength. Product should be stored indoors and protected from water, debris and dust contamination