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Hytrans-61

TYPE II INHIBITED NAPHTHENIC TRANSFORMER OIL

Inhibited naphthenic electrical insulating oil meeting the requirements of ASTM D3487 (Type II) and CSA-C50 Class B. PCB-free and non-corrosive to copper.

Property	ASTM Method	CSA-C50 Class B Type II	ASTM D3487 Type II	Hytrans-61 Typical
PHYSICAL PROPERTIES				
Appearance	Visual	N/A	Clear & Bright	Clear & Bright
Color	D1500	0.5 max	0.5 max	L0.5
Specific Gravity at 15 °C	D1298	0.906 max	0.91 max	0.8890
Kinematic Viscosity				
at 100 °C, cSt	D445	N/A	3.0 max	2.31
at 40 °C, cSt	D445	12 max	12.0 max	9.63
at 0 °C, cSt	D445	76 max	76 max	62.0
at -40 °C, cSt	D445	6000 max	N/A	3874.5
Pour Point, °C	D5950	-40 max	-40 max	-60
Interfacial Tension at 25 °C, dynes/cm	D971	40 min	40 min	51
Flash Point, °C	D92	145 min	145 min	156
CHEMICAL PROPERTIES				
Neutralization Number, mg KOH/g	D974	0.03 max	0.03 max	<0.01
Water Content, ppm	D1533	35 max	35 max	15
Corrosive Sulfur	D1275B	Non-corrosive	Non-corrosive	Non-corrosive
PCB Content, ppm	D4059	2 max	Not detectable	<1
Oxidation Stability				
wt.% Sludge at 72h	D2440	N/A	0.1 max	0.01
wt.% Sludge at 164h	D2440	0.05 max	0.2 max	0.01
Neut # mg KOH/g at 72h	D2440	N/A	0.3 max	<0.01
Neut # mg KOH/g at 164h	D2440	0.2 max	0.4 max	<0.01
Inhibitor Content, wt.%	D2668	>0.08-0.40	>0.08-0.30	0.22
Rotary Pressure Vessel Oxidation Test, min	D2112	195 min	195 min	280
ELECTRICAL PROPERTIES				
Dielectric Breakdown 60Hz, Disk Electrode, min kV	D877	30 min	30 min	55
Dielectric Breakdown 60Hz, 1 mm gap, min kV	D1816	24 min *	20 min	44
Dielectric Breakdown 60Hz, 2 mm gap, min kV	D1816	56 min **	—	—
Dielectric Breakdown Impulse, kV	D3300	145 min	145 min	>300
Gassing Tendency, µL/min	D2300	N/A	+30 max	+22
Power Factor				
at 60Hz, 100 °C, % (w)	D924	0.005 max	(0.30 max)	0.038
at 60Hz, 25 °C, % (w)	D924	0.0005 max	(0.05 max)	0.001

Typical values shown are representative of normal production and do not constitute a specification or warranty.

* Following transport (unprocessed oil). ** After filtering, drying and degasification (new processed oil).

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