

CrossTrans 206

TYPE II INHIBITED NAPHTHENIC TRANSFORMER OIL

Severely hydrotreated naphthenic electrical insulating oil formulated with an oxidation inhibitor for excellent oxidative stability and high electrical resistance. Meets the requirements of a Type II insulating oil and is commonly used in transformers, circuit breakers, oil-filled switches, and medical X-ray equipment. PCB-free and non-corrosive to copper.

COMPLIES WITH

- ANSI / ASTM D3487, Type II
- Doble TOPS-884, Inhibited Type II
- BS 148:1984, Class IIA (Inhibited)
- CAN/CSA-C50-08, Type II (Class B)
- NEMA TR-P8-1975
- IEC 60296 (see note below)

Property	ASTM Method	CSA-C50 Class B Type II	ASTM D3487 Type II	CrossTrans 206 Typical
PHYSICAL PROPERTIES				
Appearance	Visual	N/A	Clear & Bright	Clear & Bright
Color	D1500	0.5 max	0.5 max	L0.5
Aniline Point, °C	D611	—	—	72
Specific Gravity at 15°C	D1298	0.906 max	0.91 max	0.889
Kinematic Viscosity				
at 100°C, cSt	D445	N/A	3.0 max	2.34
at 40°C, cSt	D445	12 max	12.0 max	9.54
at 0°C, cSt	D445	76 max	76 max	61.9
at -40°C, cSt	D445	6000 max	N/A	4000
Pour Point, °C	D97	-40 max	-40 max	-54
Interfacial Tension at 25°C, dynes/cm	D971	40 min	40 min	48
Flash Point, °C	D92	145 min	145 min	153
CHEMICAL PROPERTIES				
Neutralization Number, mg KOH/g	D974	0.03 max	0.03 max	<0.01
Water Content, ppm	D1533	35 max	35 max	5
Corrosive Sulfur	D1275B	Non-corrosive	Non-corrosive	Non-corrosive
PCB Content, ppm	D4059	2 max	Not detectable	ND
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	0.02
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	0.17
Inhibitor Content, wt.%	D2668	>0.08–0.40	>0.08–0.30	0.25
Rotary Pressure Vessel Oxidation Test, min	D2112	195 min	195 min	290
DMSO Extract, wt.%	IP-346	—	3.0 max	<1.0
ELECTRICAL PROPERTIES				
Dielectric Breakdown 60Hz, Disk Electrode, kV	D877	30 min	30 min	42
Dielectric Breakdown 60Hz, VDE Electrode, kV	D1816	24 min	20 min	42
Dielectric Breakdown Impulse, kV	D3300	145 min	145 min	160
Gassing Tendency, µL/min	D2300B	N/A	+30 max	-10
Power Factor				
at 60Hz, 25°C, % (w)	D924	0.0005 max	0.05 max	0.01
at 60Hz, 100°C, % (w)	D924	0.005 max	0.30 max	0.05

Note: CrossTrans 206 meets the requirements for IEC 60296 with the exception of IEC 61125 acid number and % sludge content following the 500-hour oxidation test. Typical values shown are representative of normal production and do not constitute a specification or warranty. Quality and life of transformer oil depend on adherence to prescribed handling and storage norms.

TransformerParts.com

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