

# CROSS TRANS 206

## ELECTRICAL OILS

CrossTrans 206 is a specially processed electrical insulating oil produced from severely hydrotreated naphthenic base oils to assure high electrical resistance. It is formulated with an oxidation inhibitor to provide excellent oxidative stability. CrossTrans 206 meets the requirements of a Type II electrical insulating oil. It has been reviewed and approved by major regional and provincial power utilities and commonly used in transformers, circuit breakers, oil filled switches and medical X-ray equipment.

**PERFORMANCE:**

CrossTrans 206 complies fully with the following specifications:

- ANSI / ASTM D-3487, 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

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		TYPICAL
		Min	Max	
<b>Physical Properties</b>				
Aniline Point, °C	D-611	63	-	72
ASTM Color	D-1500	-	0.5	L 0.5
Flash Point, °C	D-92	145	-	153
Interfacial Tension @ 25°C, dynes/cm	D-971	40	-	48
Pour Point, °C	D-97	-	-40	-54
Specific Gravity, 15°C/15°C; kg/m <sup>3</sup>	D-1298	-	0.910	0.889
<b>Viscosity, cSt (SUS):</b>				
@ 100 °C			3.0 (36)	2.34
@ 40 °C	D-445	-	12.0 (66)	9.54
@ 0 °C			76.0 (350)	61.9
@ -40 °C			6000	4000
Visual Examination	D-1524	Clear and Bright	-	Clear and Bright
<b>Dielectric Breakdown Voltage, 60 Hz:</b>				
Disc electrodes, kV	D-877	35	-	42
<b>Dielectric Breakdown Voltage, 60 Hz:</b>				
VDE Electrode, kV	D-1816	28	-	42
<b>Dielectric Breakdown Impulse</b>				
Impulse Cond. 25C, 1-in, Impulse Cond. 25C, 1-in, Impulse Cond.	D-3300	145	-	160
@ 25°C, 1-in, (25.4mm) gap				
Gassing Tendency, uL/min	D-2300B	-	+30	-10
<b>Power Factor @ 60 Hz, %, max</b>				
@ 25°C	D-924	-	0.05	0.01
@ 100°C			0.30	0.05
Water, ppm	D-1533	-	35	5
Neutralization Number, mg KOH/g	D-974	-	0.03	< 0.01

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice.

**Health And Safety Information** See separate Safety Data Sheets available on request.

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TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		TYPICAL
		Min	Max	
<b>Physical Properties</b>				
Corrosive Sulphur	D-1275 B	Non-corrosive	-	Non-corrosive
PCB Content, ppm	D-4059	Not detectable	-	ND
<b>Oxidation Stability @ 72 Hours</b>				
% Sludge, by Mass	D-2440	-	0.15	< 0.01
Total Acid Number mg KOH/g			0.30 Maximum	< 0.01
<b>Oxidation Stability @ 164 Hours</b>				
% Sludge, by Mass	D-2440	-	0.20 Maximum	0.02
Total Acid Number mg KOH/g			0.40	0.17
Rotating Bomb, minutes	D-2112	195		290
Oxidation Inhibitor, % Mass	D-2668	-	0.30	0.25
DMSO Extract, wt. %	IP-346	-	3.0	< 1.0

**Note:** Crosstrans 206 meets the requirements for IEC 60296 with the exception for IEC 61125 acid number and % sludge content following the 500 hour oxidation test.

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Quality and life of transformer oils depend upon the adherence to prescribed norms while in storage and during handling. A high level of caution is required to maintain the quality of transformer oil because of its high sensitivity to even minute contamination.

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**Cross Oil Refining & Marketing, Inc.**

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Product Data Sheet Revision 01/2006