



# Naphthenics Product Data Sheet

## Nynas Transformer Oil - Nytro 10GBN

2006-05-15

PROPERTY	UNIT	TEST METHOD ASTM	GUARANTEED DATA		TYPICAL DATA
			Min	Max	
<u>1. Physical</u>					
Appearance		D 1524	Clear and Bright		C&B
Density, 15°C	kg/dm <sup>3</sup>	D 1298		0,91	0,890
Viscosity, 40°C	mm <sup>2</sup> /s	D 445		12	9,1
Viscosity, 100°C	mm <sup>2</sup> /s	D 445		3,0	2,3
Viscosity, 0°C	mm <sup>2</sup> /s	D 445		76	66
Flash Point, COC	°C	D 92	145		150
Pour Point	°C	D 97		-40	-57
Aniline Point	°C	D 611	63	84	69
Colour		D 1500		0,5	<0,5
Interfacial tension at 25°C	mN/m	D 971	40		49
<u>2. Chemical</u>					
Total Acid no	mg KOH/g	D 974		0,03	<0,01
Corrosive sulphur		D 1275A	Non corrosive		Non Corrosive
Corrosive sulphur		D 1275B			Corrosive
Antioxidant, phenols	Wt %	D 2668	Not detectable		Not detectable
Water content	ppm	D 1533		35	<20
PCB content	ppm	D 4059	Not detectable		Not detectable
<u>3. Electrical</u>					
Dielectric dissipation factor at 100°C	%	D 924		0,3	0,1
Breakdown voltage					
- Before treatment	kV	D 877	30		55
- After treatment	kV	D 1816 (0.04" gap)	28		35
Gassing tendency	µl/min	D 2300B		+30	<0
<u>4. Oxidation Stability</u>					
After 72 h:		D 2440			
Sludge	wt%			0,15	<0,02
Neutralization No	mg KOH/g			0,5	0,15
After 164 h:					
Sludge	wt%			0,3	0,03
Neutralization No	mg KOH/g			0,6	0,19

Nytro 10GBN is an uninhibited transformer oil, meeting the specifications ASTM D3487 type I, IEC 60296 (03) General specifications and AS 1767.1-1999.