

Nynas AB  
**PRODUCT DATA SHEET**  
**Nytro Leo I**



Severely Hydrotreated Insulating Oil

Issuing date: 2008-03-27

Characteristics	Unit	Test method ASTM	Guaranteed data		Typical data
			Min	Max	
<b>1. Physical</b>					
Appearance		D 1524	Clear and bright		complies
Density, 15°C	kg/dm <sup>3</sup>	D 1298		0.91	0.891
Viscosity, 40°C	mm <sup>2</sup> /s	D 445		12.0	8.7
Viscosity, 100°C	mm <sup>2</sup> /s	D 445		3.0	2.2
Viscosity, 0°C	mm <sup>2</sup> /s	D 445		76	54
Flash Point, COC	°C	D 92	145		152
Pour Point	°C	D 97		-40	-63
Aniline Point	°C	D 611	63	84	66
Colour		D 1500		0.5	<0.5
Interfacial tension at 25°C	mN /m	D 971	40		51
<b>2. Chemical</b>					
Total acid No.	mg KOH/g	D 974		0.03	<0.01
Corrosive sulphur		D 1275 A	non-corrosive		non-corrosive
Corrosive sulphur		D 1275 B	non-corrosive		non-corrosive
Antioxidant, phenols	Wt %	D 2668		0.08	≤0.08
Water content	ppm	D 1533		35	<20
PCB Content	ppm	D 4059	not detectable		not detectable
<b>3. Electrical</b>					
Dielectric dissipation factor at 100°C	%	D 924		0.3	0.1
Breakdown voltage					
- Before treatment	kV	D877	30		35
- After treatment	kV	D 1816 (0.08" gap)	28		36
- Impulse breakdown	kV	D 3300	145		>300
Gassing tendency	µl /min	D 2300B		+30	+6
<b>4. Oxidation Stability</b>					
After 72 h		D 2440			
- Sludge	Wt %			0.15	<0.01
- Neutralization No.	mg KOH/g			0.5	0.02
After 164 h					
- Sludge				0.3	0.02
- Neutralization No.				0.6	0.18
Rotating Bomb test	minutes	D 2112			222

Nytro Leo I is a trace inhibited insulating oil meeting ASTM D 3487 Type I.