PRODUCT DATA SHEET

NYSWITCHO™ 3X

Property	Unit	Test Method	Specification Limits		Typical Data
			Min	Max	
1 - Physical					
Appearance at 15°C		IEC 60296	Clear, Free from Sediment		Clear, Free from Sediment
Density, 20°C	kg/dm³	ISO 12185		0.895	0.860
Viscosity, 40°C	mm²/s (cSt)	ISO 3104		3.5	3.3
Viscosity, -40°C	mm²/s (cSt)	ISO 3104		150	125
Flash Point, PM	°C	ISO 2719	95		98
Pour point	°C	ISO 3016		-60	< -70
2 - Chemical					
Acidity	mg KOH/g	IEC 62021		0.03	< 0.01
Corrosive sulphur		DIN 51353	Non-Corrosive		Non-Corrosive
Aromatic content	%	IEC 60590			6
Antioxidants	wt %	IEC 60666			0.30
Water content	mg/kg	IEC 60814		30	< 20
Interfacial tension at 25°C	mN/m	IEC 62961	40		48
Oxidation stability at 100°C, 164 h		IEC 61125			
- Total acidity	mg KOH/g	IEC 61125			< 0.01
- Sludge	wt %	IEC 61125			< 0.005
Oxidation stability At 120°C, Induction period	h	IEC 61125	120		> 160
3 - Electrical					
DDF at 90°C		IEC 60247		0.005	< 0.001
Breakdown voltage	kV	IEC 60156			
- Before treatment	kV	IEC 60156	30		40-60
- After treatment	kV	IEC 60296	70		> 70

NYSWITCHO 3X is a low viscosity switch-gear oil which meets specification IEC 60296(82) Class III A. Breakdown voltage after treatment as per definition given in IEC 60296.

Severely Hydrotreated Insulating Oil
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