



山东达驰电气有限公司

SHANDONG DACHI ELECTRIC CO., LTD.

克拉玛依润滑油厂产品合格证

Product Qualification Certification of Karamay Lubricant Corporation ,Sinkiang

产品名称: Nitro 11GX

产品检验日期: 2023年6月13日

Product Name : Transformer Oil Nitorn 11GX

Test Date : June 13rd, 2023

Nynas AB PRODUCT DATA SHEET Nytro 11GX

Severity Hydrotreated Insulating Oil					
Property	Unit	Test method	Guaranteed data		Typical date
			IEC	Min	
1. Physical					
Appearance		IEC 60296	Clear, free from sediment		complies
Density, 20°C	kg/dm ³	ISO 12185		0,895	0,863
Viscosity, 40°C	mm ² /s	ISO 3104		11,0	8,3
Viscosity, -30°C	mm ² /s	ISO 3104		1800	560
Pour point	°C	ISO 3016		-45	-51
2. Chemical					
Acidity	mg KOH/g	IEC 62021		0,01	<0,01
Corrosive sulphur		DIN 51353	non-corrosive		non-corrosive
Corrosive sulphur		ASTM D 1275B	non-corrosive		non-corrosive
Corrosive sulphur		IEC 62536	non-corrosive		non-corrosive
Aromatic content	%	IEC 60590			9
Antioxidant, phenols	Wt %	IEC 60666	0,3	0,4	0,3
Water content	mg/kg	IEC 60814		30	<20
Furfural content	mg/kg	IEC 61198		0,1	<0,1
3. Electrical					
Dielectric dissipation factor (DDF)		IEC 60247		0,005	<0,001
at 90°C					
Interfacial tension	mN/m	ISO 6295	40		50
Breakdown voltage					
- Before treatment	kV	IEC 60156	30		40-60
- After treatment	kV		70		>70
4. Oxidation stability					
at 120°C, 500 h		IEC 61125 C			
Total acidity	mg KOH/g			1,2	<0,25
Sludge				0,8	<0,06
DDF / 90°C				0,500	<0,11
6. Health, safety and environment					
Flash point, PM	°C	ISO 2719	135		140
DMSO extractable compounds	Wt %	IP 346		3	<3
PCB		IEC 61619	not detectable		not detectable

Nytro 11GX is an inhibited insulating oil, meeting IEC 60296 (03) General specifications

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