

PROPERTY	UNIT	TEST METHOD	SPECIFICATION LIMITS		TYPICAL DATA
			MIN	MAX	
<b>1 - Function</b>					
Viscosity, 40°C	mm <sup>2</sup> /s	ISO 3104		12.0	11.2
Viscosity, -20°C	mm <sup>2</sup> /s	ISO 3104		1800	740
Pour point	°C	ISO 3016		-30	-54
Water content	mg/kg	IEC 60814		30	<20
Breakdown voltage					
- Before treatment	kV	IEC 60156	30		40-60
- After treatment	kV	IEC 60296	70		>70
Density, 20°C	kg/dm <sup>3</sup>	ISO 12185		0.895	0.873
DDF at 90°C		IEC 60247		0.005	<0.001
<b>2 - Refining/stability</b>					
Appearance		IEC 60296	Clear, free from sediment		complies
Acidity	mg KOH/g	IEC 62021		0.01	<0.01
Interfacial tension	mN/m	EN 14210	40		>40
Corrosive sulphur		DIN 51353	non-corrosive		non-corrosive
Potentially corrosive sulphur		IEC 62535	non-corrosive		non-corrosive
Corrosive sulphur		ASTM D 1275	non-corrosive		non-corrosive
DBDS	mg/kg	IEC 62697-1	not detectable		not detectable
Antioxidant	wt %	IEC 60666	not detectable		not detectable
Metal passivator additives	mg/kg	IEC 60666	not detectable		not detectable
2-Furfural and related compounds content	mg/kg	IEC 61198		0.05	<0.05
<b>3 - Performance</b>					
Oxidation stability at 120°C, 164 h		IEC 61125 C			
Total acidity	mg KOH/g			1.2	0.7
Sludge	wt %			0.8	0.2
DDF at 90°C				0.500	0.101
<b>4 - Health, safety and environment (HSE)</b>					
Flash point, PM	°C	ISO 2719	135		142
PCA	wt %	IP 346		3	<3
PCB	mg/kg	IEC 61619	not detectable		not detectable

Distro DT-11 is an uninhibited insulating oil, meeting IEC 60296 Ed.4 (2012) General specifications, LCSET -20°C. This transformer oil is developed for distribution transformers, and should only be used in applications with a nominal voltage level less than 72 kV. Breakdown voltage after treatment as per definition given in IEC 60296, section 6.4.

Severely Hydrotreated Insulating Oil  
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