

# FLAMINGO

## Lubricants



Flamingo Lubricants is a premium quality Uninhibited Transformer Oil meeting the IEC 60296:2012 Edition 4 specifications. It possesses excellent electrical and oxidation stability characteristics.

### TECHNICAL SPECIFICATION

Characteristics	Unit	Test Method	Typical Data	
			Min	Max
<b>A. FUNCTION</b>				
Viscosity at 40°C	cSt	ISO 3104	-	12
Viscosity at -30°C	cSt	ISO 3104	-	1800
Pour Point	°C	ISO 3016	-	-40
Water Content, bulk / drum	ppm	IEC 60814	-	30/40
Breakdown Voltage as delivered / after treatment	kV	IEC 60156	30/70	-
Density at 20°C	g/ml	ISO 3675 or ISO 12185	-	0.895
DDF at 90°C	-	IEC 60247 or IEC 61620	-	0.005
Particle content	-	IEC 60970	No general requirement	
<b>B. REFINING / STABILITY</b>				
Appearance	-	-	Clear, free from sediment and suspended matter	
Acidity	mgKOH/gm	IEC 62021-1 or -2	-	0.01
Interfacial Tension	mN/m	EN 14210 or ASTM D971	No general requirement	
Total Sulphur Content	%	IP 373 or ISO 14596	No general requirement	
Corrosive Sulphur	-	DIN 51353	Not corrosive	
Potentially Corrosive Sulphur	-	IEC 62535	Not corrosive	
DBDS	mg/Kg	IEC 62697 -1 (in prep.)	Not detectable (<5)	
Inhibitors	%	IEC 60666	Inhibited (0.08 – 0.4)	
Metal Passivator Additives	mg/Kg	IEC 60666	Not detectable (<5)	
Other Additives	-	-	Does not contain any other additives	
2-Furural and Related Compounds Content	mg/Kg	IEC 61198	Not detectable (<0.05) for each individual compound	
Stray Gassing	-	Para 6.22 of IEC 60296	No general requirement	
<b>C. PERFORMANCE</b>				
Oxidation Stability	-	IEC 61125:1992 (Method C) Test duration – (U) Uninhibited Oil 500 hrs	-	-
Total acidity	mgKOH/gm	1.9.4 of IEC 61125:1992	-	1.2
Sludge	%	1.9.1 of IEC 61125:1992	-	0.8
DDF at 90°C	-	1.9.6 of IEC 61125:1992, Amendment 1 (2004) + IEC 60247	-	0.500
Gassing Tendency	-	IEC 60628, Method A	No general requirement	
ECT	-	-	No general requirement	
<b>D. HEALTH, SAFETY &amp; ENVIRONMENT</b>				
Flash Point	°C	ISO 2719	135	-
PCA Content	%	IP 346	-	3
PCB Content	mg/Kg	IEC 61619	Not detectable (<2)	

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