TECHNICAL DATA SHEET

Cratos IA

Inhbited Transformer Oil

DESCRIPTION:

Cratos IA Inhibited Transformer oil is severely refined hydro-cracked / hydrotreated virgin mineral insulating oil with highest degree of purity and stability. Cratos IA oil is manufactured from judiciously selected blend of latest technology feed stocks. Cratos IA Inhibited Transformer oils have excellent oxidation stability, high dielectric strength and are used in equipment requiring operations at elevated temperatures & greater oxidation resistance. Cratos IA oils are highly suitable for all grades of Power Transformers, Distribution Transformers, Circuit Breakers, Oil filled switches X-ray equipment.

PERFORMANCE LEVELS:

Product is analysed and passes the corrosion test as per

- ASTM D 1275B
- IEC 62535
- DIN 51353

BENEFITS:

- Very low sulphur and no DBDS.
- Non corrosive as tested by all present and proposed methods, i.e. standard DIN & ASTM tests and also the proposed CIGRE test.
- Higher Flash point, resulting on Low evaporation

TYPICAL PROPERTIES:

TEST	UNIT	METHOD	LIMITS	TYPICAL VALUES
Appearance			Clear, free from sediment & suspended matter	Comply
Colour		ISO 2049	Max 1.5	Less than 0.5
Viscosity 40 °C	mm ²/s	ISO 3104	Max 12	10
Viscosity -30 °C	mm ²/s	ISO 3104	Max 1800	386
Flash Point, (PMCC)	°C	ISO 2719	Min 135	150
Pour Point	°C	ISO 3016	Max -40	-42
Density 20 °C	g/ml	ISO 3675 or ISO 12185 or ASTM D7042	Max 0.895	0.835
Interfacial Tension	mN/m	IEC 62961 or ASTM D91	Min 40	47

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TYPICAL PROPERTIES:

TEST	UNIT	METHOD	LIMITS	TYPICAL VALUE
Corrosive Sulphur	-	DIN 51353	Not corrosive	Not corrosive
Water Content bulk/drum or IBC	mg/Kg	IEC 60814	Max 30/40	12
Inhibitors of IEC 60666	%	IEC 60666	0.08-0.4	0.29
Total Furfural content	mg/Kg	IEC 61198	Not detectable (<5)	Not detectable
Oxidation stability, 120 °C 500 h		IEC 61125		
-Total acidity	mg KOH/g	4.8.4 of IEC 61125:2018	Max 1.2	0.12
-Sludge	%	4.8.1 of IEC 61125:2018	Max 0.8	0.08
-DDF at 90 °C	-	4.8.5 of IEC 61125:2018	Max 0.5	0.009
Break Down Voltage				
-As delivered	kV	IEC 60156	Min 30	60
-After treatment	kV	IEC 60156	Min 70	>70
PCA Content	%	IP 346	Max 3	0.9
PCB Content	mg/Kg	IEC 61619	Not detectable(<2)	Not detectable

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