



Transmax

Premium uninhibited transformer insulating oils

Description

Transmax uninhibited transformer oils are severely refined hydro treated virgin mineral insulating oil with highest degree of purity and stability. Transmax oils are manufactured from carefully selected blend of latest technology feed stocks. Transmax series of uninhibited transformer oils have excellent oxidation stability, high dielectric strength and are used in equipment requiring operations at elevated temperatures & greater oxidation resistance. For more severe applications, elevated temperatures and better oxidation resistance our inhibited line of Transformer oils (Transmax I series) may be considered.

Applications

Transmax oils are highly suitable for all grades of power transformers, distribution transformers, circuit breakers, oil filled switches x-ray equipment.

Benefits

- Higher flash point, resulting on low evaporation losses and better safety
- Remarkably low sludge and acidity formation, in both ageing and oxidation tests, results in longer life of oil and equipment.
- Low viscosity oils offering excellent and fast heat transfer
- Very low sulphur and no DBDS content
- Non corrosive

Performance level & standards

Standard	Transmax A	Transmax B	Transmax U
IS 335:05	☑	☑	☑
IEC 296:82: Class I & BS 148:98 Class I	☑	☑	☑
IEC 296:82: Class II & BS 148:98 Class II	☒	☒	☑
IEC 60296:03 Table 2: U	☒	☑	☑
JS 2320 Class I	☑	☑	☑

All performance data on this Technical Data Sheet are indicative only and can vary during production

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Typical performance data

	Test method	Transmax A	Transmax B	Transmax U
Appearance		B&C, free from suspended impurities		
Odour		Odourless		
Density @ 20 °C, gr/ml, Max	BS EN ISO 3675 IS 1448	0.895	0.895	0.895
Kinematic viscosity, mm ² /s				
• 40°C	BS EN ISO 3104	16.5	11.0	12.0
• 27°C	IS 1448 (part-25)	-	-	-
• -15°C	BS EN ISO 3104	800	-	-
• -30°C		-	1800	1800
Flash point, °C PMCC	BS EN ISO 2719	140	140	135
Pour point, °C	BS EN ISO 3016	≤-30	≤-45	≤-40
Neutralisation value/Acidity, mg KOH/g	IEC 62021-1 BS 148-1998	0.03	0.03	0.01
Corrosive sulphur				
• Silver strip, 100 °C, 18 h	DIN 51353		Non corrosive	
• Cu Strip, 140 °C, 19 h	BS 5680/IS335 Annex B		Non corrosive	
• Cu Strip, 150 °C, 48 h	ASTM D1275-B		Non corrosive	
• Cu Strip & Paper, 150 °C, 72 h	IEC 62535:08		Non corrosive	
Water content, max mg/kg, Max	IEC 60814			
• Bulk		30	30	20
• Drum		40	40	30
Anti-oxidant additives, % Max	IEC 60666/BS 5984	Not detectable		
Oxidation stability, 164 hrs	IEC & BS EN 61125			
• Neutralization value, mg KOH/g	Method A&C	0.4	0.4	0.4
• Total sludge (%) max	IEC 60247	0.1	0.1	0.1
• DDF @ 90 °C		0.5	-	0.5
Breakdown voltage	IEC & BS EN 60156			
• Delivered (kv), min		30	30	30
• After treatment (kv), min		50	70	70
Dielectric dissipation factor DDF @ 90 °C	IEC 60247	0.005	0.002	0.005
Gassing tendency @ 50 Hz after 120 min. mm ³ /min, method A (max)	BS 5797/ IEC 60628,A	+5	-	-
Total PCB content, mg/kg	IEC & BS EN 61619	Non detectable	<1	Non detectable
Total furans, mg/kg	IEC & BS 61198	0.10	0.10	0.10
Polycyclic aromatics % mass, typical	BS 2000 (P:346)	0.613	0.931	0.711
Interfacial tension, mN/m, min	ISO 6295	40	40	40
Total Sulphur Content, %, max	BS 2000 Part 373 ISO 14596	No requirements	0.15	0.15

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