

# TRANSMAX IA

Product code: 268100401

## Premium inhibited transformer insulating oils

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

## Applications

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

## Benefits & Advantages

- 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 IA
IS 12463:03	☑
IEC 296:82: Class IA & BS 148:98 Class IA	☑
IEC 296:82: Class IIA & BS 148:98 Class IIA	☒
IEC 60296:03 Table 2: I	☒
JS 2320 Class I IEC No 2A	☑
ASTM D3487 Type II	☒

## Typical Performance Data

Typical	Test Method	Value
Appearance		B&C, free from suspended impurities
Odour		Odourless
Colour, Max	ASTM D1500	0,5
Density @ 20 °C, gr/ml, Max	BS EN ISO 3675	0,895
Kinematic viscosity, mm <sup>2</sup> /s		
<ul style="list-style-type: none"> <li>• 40°C</li> <li>• 27 °C</li> <li>• -15°C</li> <li>• -30 °C</li> </ul>	BS EN ISO 3104 IS 1448 (part-25) BS EN ISO 3104	16,5 - 800 -

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Flash point, °C PMCC	BS EN ISO 2719	140
Pour point, °C	BS EN ISO 3016	≤-30
Neutralisation value/Acidity, mg KOH/g	IEC 62021-1 BS 148-1998	0,02
Corrosive sulphur <ul style="list-style-type: none"> <li>• Silver strip, 100 °C, 18 h</li> <li>• Cu Strip, 14 °C, 19 h</li> <li>• Cu Strip, 150 °C, 48 h</li> <li>• Cu Strip &amp; Paper, 150 °C, 72 h</li> </ul>	DIN 51353 BS 5680/IS335 Annex B ASTM D1275-B IEC 62535:08	Non corrosive Non corrosive Non corrosive Non corrosive
Water content, max mg/kg, max <ul style="list-style-type: none"> <li>• Bulk</li> <li>• Drum</li> </ul>	IEC 60814	20 30
Breakdown voltage <ul style="list-style-type: none"> <li>• Delivered (kv), min</li> <li>• After treatment (kv), min</li> </ul>	IEC & BS EN 60156	30 50
Anti-oxidant additives, % Max	IEC 60666/BS 5984	≤0,3%
Oxidation stability, 164 hrs <ul style="list-style-type: none"> <li>• Neutralization value, mg KOH/g</li> <li>• Total sludge (%) max</li> </ul>	IEC & BS EN 61125 Method A&C	0,25 0,01
Oxidation stability, 500 hrs <ul style="list-style-type: none"> <li>• Neutralization value, mg KOH/g</li> <li>• Total sludge (%) max</li> <li>• DDF @ 90 °C</li> </ul>	IEC & BS EN 61125 Method A&C IEC 60247	1,5 1,0 -
Oxidation Stability (RBOT), min	ASTM D2112	-
Oxidation Stability-Induction period, hrs	IEC 474	>120
Dielectric dissipation factor DDF @ 90 °C	IEC 60247	0,002
Gassing tendency @ 50 Hz after 120 min. mm <sup>3</sup> /min, method A (max)	BS 5797/ IEC 60628,A	+5
Total PCB content, mg/kg	IEC & BS EN 61619	Not detectable
Total furans, mg/kg	IEC & BS 61198	0,10
Polycyclic aromatics % mass	BS 2000 (P:346)	3,00
Interfacial tension, mN/m	ISO 6295	40
Total Sulphur Content %	BS 2000 Part 373 ISO 14596	No requirement

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