

MICTRANS "HI"

Property	Unit	Test Method	Guaranteed Data		Typical Data
			Min	Max	
1. Physical					
Appearance		-	Clear, free from sediment and suspended matter		complies
Density, 20°C	kg/dm ³	ISO 3675		0.895	0.870
Viscosity, 40°C	mm ² /s	ISO 3104		12.0	8.5
Viscosity, -30°C	mm ² /s	ISO 3104		1800	450.0
Pour Point	°C	ISO 3016		-40	-50
2. Chemical					
Acidity	mg KOH/g	IEC 62021 - 1		0.01	< 0.01
Corrosive sulfur		DIN 51353	noncorrosive		noncorrosive
Corrosive sulfur		ASTM D1275, B	noncorrosive		noncorrosive
Potentially corrosive sulfur		IEC 62535	noncorrosive		noncorrosive
DBDS		IEC 62697-1	not detectable(<5mg/kg)		not detectable
Antioxidant additive	wt%	IEC 60666	0.08	0.4	0.38
Metal passivator additives		IEC 60666	not detectable(<5mg/kg)		not detectable
Water content	mg/kg	IEC 60814		30	< 20
2-furfural & related content	mg/kg	IEC 61198		0.05	< 0.05
3. Electrical					
DDF at 90 °C		IEC 60247		0.005	< 0.001
Interfacial tension	mN/m	EN 14210	40		>45
Total Sulfur content	wt%	ISO 14596		0.05	0.04
Breakdown voltage		IEC 60156			
- Before treatment	kV		30		40~60
- After treatment	kV		70		>70
4. Oxidation Stability					
At 120°C, 500hr		IEC 61125, C			
- Total acidity	mg KOH/g			0.3	0.10
- Sludge	wt%			0.05	0.02
- DDF at 90 °C		IEC 60247		0.05	<0.03
Gassing tendency	μℓ/min	IEC 60628, A			+28
5. Health, safety and environment (HSE)					
Flash Point, PM	°C	ISO 2719	135		145
PCA	wt%	IP 346		3	<3.0
PCB	ppm	IEC 61619	not detectable		not detectable

Mictrans "HI" is an inhibited transformer oil, meeting IEC 60296(2012), Special applications.