



XTeer Trans IEC is an electrical insulating oil that conforms to IEC 60296 Edition 4.0 (2012) standards. Formulated with selective additives and naphthenic base oils, **XTeer Trans IEC** provides excellent oxidation stability and insulating properties. This ensures longer lifespan of your transformer with enhanced efficiency. As stipulated in IEC 60296, **XTeer Trans IEC** comes in three types: Type U (uninhibited), Type T (trace-inhibited) and Type I (inhibited).

◆ Applications

. IEC U/T/I : High voltage oil-immersed transformer and oil circuit breaker

◆ Features / Benefits

- . Excellent insulating properties
- . Excellent low-temperature properties
- . High Purity : limits sludge formation
- . Reliable oxidation stability : resists oxidation and deposit build-up
- . Excellent gas absorption ratio : Enhance safety

◆ Specifications

- . IEC 60296 Type U : uninhibited (contains no antioxidants)
- . IEC 60296 Type T : Trace-inhibited (contains antioxidants less than 0.08 wt%)
- . IEC 60296 Type I : inhibited (contains 0.08 wt% ~ 0.4 wt% of antioxidants)

◆ Typical Physical Characteristics

Test			IEC U	IEC T	IEC I	Remarks
Specific gravity, 15/4°C			Less than 0.88	Less than 0.88	Less than 0.88	
Flash point PMCC, °C			More than 150	More than 150	More than 150	
Interfacial tension 25°C, dyne/cm			More than 46	More than 47	More than 47	
2-Furfural content(mg/kg)			Pass	Pass	Pass	
Power factor 90°C, %			Less than 0.01	Less than 0.01	Less than 0.01	
Pour point, °C			Less than -51	Less than -48	Less than -48	
TAN, mg KOH/g			Less than 0.01	Less than 0.01	Less than 0.01	
Break down voltage 2.5mm, kV			More than 75	More than 75	More than 75	
Kinematic viscosity, cSt	-30°C		Less than 726.3	Less than 665.2	Less than 664.4	
	40°C		Less than 10.53	Less than 9.913	Less than 9.910	
	100°C		Less than 2.626	Less than 2.524	Less than 2.526	
Moisture content, PPM			Less than 15	Less than 15	Less than 15	
Oxidation stability	120°C/ 164 hr	Sludge, wt%	Less than 0.2	-	-	
		TAN, mg KOH/g	Less than 0.36	-	-	
		DDF 90°C	Less than 0.06	-	-	
	120°C/ 332 hr	Sludge, wt%	-	Less than 0.27	-	
		TAN, mg KOH/g	-	Less than 0.25	-	
		DDF 90°C	-	Less than 0.05	-	
	120°C/ 500 hr	Sludge, wt%	-	-	Less than 0.18	
		TAN, mg KOH/g	-	-	Less than 0.50	
		DDF 90°C	-	-	Less than 0.05	
Antioxidants content, %			Non	Less than 0.06	Less than 0.35	
PCA content, %			Less than 3	Less than 3	Less than 3	
Corrosive sulfur 100°C/18 hrs			Noncorrosive	Noncorrosive	Noncorrosive	
PCB, mg/L			Non	Non	Non	