

SPECIFICATION - RECTIFIER OIL



APPLICATION RANGE

Main field of applications are local main transformers, electric rectifiers and switchgears.

The following standards must be fulfilled to use the rectifier oil.

- Class A der DIN 57 370 / VDE 0370 Part 1
- International IEC-Publication 296 (1982)
- english code BS 148

Transformer oil is:

Shell Diala S4 ZX-I or similar uninhibited electrical insulating oil with approvals **IEC 60296**.

It is not advisable to use recycle transformer oil.

APPLICATION FIELD:

Main applications include and local transformers, rectifiers and switchgear.

The following standards must be met to the oil safe to use:

Properties	Unit		Test method
Density at 15°C	kg/m ³	869	DIN 51757
Viscosity			
at 40°C	mm ² /s	10	ISO 3104
at -30°C	mm ² /s	1000	ISO 3104
Flashpoint, PM	°C	149	ISO 2719
Pourpoint	°C	- 48	ISO 3016
Neutralization number	mgKOH/g	< 0,01	IEC 62021
Water content	mg/kg	< 20	IEC 60814
Dielectric dissipation factor (DDF) at 90°C		< 0,001	IEC 60247
Interfacial tension	mN/m	48	ISO 6295
Break down voltage*)			
Before treatment	kV	> 30	IEC 60156
After treatment	kV	< 70	IEC 60296/60156
- oxidation stability, 164 h at 120°C	mgKOH/g	0,23	IEC 61125 C
- Sludge	Gew.-%	0,07	
- DDF at 90°C		0,040	

*) RENOLIN ELTEC is delivered without treatment