

Specification No. **TRE 202**
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Rev. 00 Dt. : 08.01.2014

1. **General** - This specification governs the quality of a hard porous, creped insulating paper. The crepe paper shall be manufactured in natural colour and shall not be dyed. The material in insulating mineral oil has temperature index of at least 105. The creping of paper shall be fine.
2. **Compliance with standards** – IEC:60554-3-3.
3. **Sample for test** – 20 sheets of 300 x 300 mm shall be required for testing. Test as per IEC:60554-2 & IEC:60554-3-3.
4. **Properties** –

	Parameters	Type A (Ref. AA21117)	Type B (Ref. AA21117)	Type C (Ref. AA21117)	Type D (Ref. AA21179)
	Application	Leads & shields	Leads & shields Cable/ conductor covering for AA28502/ BP28162	Leads & shields	Crossover, transposition and joints in windings. Leads & shields
1.	Base paper thickness (If secondary crepe) (micron)	25±2.5	75±7.5	100±10	55±5.5
2.	Crepe Paper thickness (micron)	75 ±25	250 +60,-50	400±70	200±80
3.	Substance (g/m ²)	35±10%	85±10%	150±10%	55±15%
4.	Hill count / 10mm	10 min.	10 min.	10 min.	10 min.
5.	Tensile index-MD (Nm/g)	39 min.	39 min.	39 min.	39 min.
6.	Elongation-MD (%)	51 to 69	45 to 69	85 to 115	45 to 65
7.	Ash content (%)	1 Max.	1 Max.	1 Max.	1 Max.
8.	Conductivity of aqueous extract (mS/m)	8 Max.	8 Max.	8 Max.	8 Max.
9.	pH value of aqueous ext.	6-8	6-8	6-8	6-8
10.	Moisture (%)	8 Max.	8 Max.	8 Max.	8 Max.
11.	Finish	Fine	Fine	Fine	Fine

5. **Test certificates** - Unless otherwise stated, test certificates shall be supplied along with each consignment. In addition, the supplier shall ensure to send one copy of test certificates along with their dispatch documents to facilitate quick clearance of the material. The test certificates shall bear the information generally as per above table and clause 6.
6. **Packing & marking** - Packing shall be marked legibly at least with the BHEL spec. no., Order No., Quantity, Thickness & width, net/ gross weight & Date of manufacturer.

REV	DATE	ALT CHD	REV-	DATE	ALT CHD.	REV 00	NAME	SIGN	DATE
						PREP.	Akshay Dave		07.01.14
						CHD.	S.K.Mahajan		08.01.14
DWI/TCB/TRE/010									