

**TECHNICAL SPECIFICATION**

**BAKELITE TUBES (SYNTHETIC RESIN BONDED PAPER TUBE IN ROUND SHAPE)**

<b>Description of Material</b>
<p>Bakelite Tubes (Synthetic Resin Bonded Paper Tube in Round shape) Electrical grade, Best quality, Type PF CP 81, suitable for repairing of distribution transformers of various capacity.</p> <p>Conforming to BS 6128:Part 8:1982 with latest amendment.</p>
<p><b><u>Sizes</u></b></p> <p>1. Bakelite Tubes with ID-6.5 mm, OD 9.5 mm, Length 750mm</p>
<p>Tolerance in Dimension <math>\pm 5\%</math>, No Negative Tolerance Allowed in Length</p>

**Note:-**

1. No negative tolerance allowed in length.
2. All specification and Testing should be as per BS 6128 : Part 8: 1982 with latest amendment.
3. All the Acceptance Test should be carried out as per provision of BS 6128 : Part 8: 1982 with latest amendment.
4. If facility of any acceptance test of above material is not available at firm's premises, then inspecting authority will send a sealed sample of the above material to NABL lab for such test and mentioned lot will be accepted only when it successfully pass in acceptance test. The cost of such test (s) shall be borne by the supplier firm.

**TECHNICAL SPECIFICATION,**

**GLASS SLEEVES FOR USE IN REPAIRING OF DISTRIBUTION TRANSFORMER**

<b>Description of Material</b>						
Glass Sleeves suitable for use in repairing of Distribution Transformer of various capacities, confirming the relevant IS: 11654-3-403(1989) with latest amendment.						
<u>size</u>						
1. Glass Sleeves 2.00 mm x 1.00 mtr long 2. Glass Sleeves 4.00 mm x 1.00 mtr long 3. Glass Sleeves 6.00 mm x 1.00 mtr long 4. Glass Sleeves 8.00 mm x 1.00 mtr long 5. Glass Sleeves 10.00 mm x 1.00 mtr long						
<b><u>Technical Particulars</u></b>						
<b>Sl no</b>	<b>Particulars</b>	<b>Glass Sleeves (2.0mm)</b>	<b>Glass Sleeves (4.0mm)</b>	<b>Glass Sleeves (6.0mm)</b>	<b>Glass Sleeves (8.0mm)</b>	<b>Glass Sleeves (10.0mm)</b>
1	Nominal Bore size	2.0 mm	4.0 mm	6.0 mm	8.0 mm	10.0 mm
2	Tolerance of Bore Dia Bilateral ( ± )	0.20 mm	0.25 mm	0.25 mm	0.25 mm	0.50 mm
3	Tolerance of Bore Dia Unilateral ( + )	0.40 mm	0.50 mm	0.50 mm	1.00 mm	1.00 mm
4	Wall Thickness (Min)	0.35 mm	0.50 mm	0.50 mm	0.50 mm	0.65 mm
5	Wall Thickness (Max)	0.75 mm	0.75 mm	0.75 mm	0.75 mm	1.00 mm
6	Length	1 Meter				

**Note:-**

1. No negative tolerance allowed in length.
2. All specification and Testing should be as per IS: 11654-3-403(1989)
3. All the Acceptance Test should be carried out as per provision of IS 11654-3-403(1989) with Latest Amendment.
4. If facility of any acceptance test of above material is not available at firm's premises, then inspecting authority will send a sealed sample of the above material to NABL lab for such test and mentioned lot will be accepted only when it successfully pass in acceptance test. The cost of such test (s) shall be borne by the supplier firm.

**TECHNICAL SPECIFICATION**

**NEOPRENE OIL SEALS OF DIFFERENT SIZES**

<b>Description of Material</b>				
Neoprene Oil Seals of following sizes suitable Transformer made of best quality Neoprene Rubber as per relevant ISS meant for Electrical use in repairing of Distribution Transformer & as per approved Drawing & G.T.P with following Properties:-				
(i) Shore Hardness		38 to 42 Durometer A		
(ii) Tensile Strength		105 Kg/cm <sup>2</sup> (minimum)		
(iii) Ultimate elongation		350% ( minimum)		
(iv) Size tolerance Radius		(+/-) 1.0 mm		
(v) Height & other Dimension		(+) 0 mm, (-) 1.0 mm		
<b><u>Sizes</u></b>				
1. Neoprene Oil Seals in size M-12 suitable for HT Side of Transformer (10 - 1000 KVA)				
2. Neoprene Oil Seals in size M-12 suitable for LT side of Transformer (10 - 100 KVA)				
3. Neoprene Oil Seals in size M-20 suitable for LT side of Transformer (250 - 400 KVA)				
<b><u>Technical Particulars</u></b>				
<b>Sl</b>	<b>Description</b>	<b>M-12 for HT side of Transformer (10-1000 KVA)</b>	<b>M-12 for LT side of Transformer (10-100 KVA)</b>	<b>M-20 for LT side of Transformer (250-400 KVA)</b>
1	Inner Dia	11.5 mm	11.5 mm	19.5 mm
2	Outer Dia	29 mm	23 mm	32 mm
3	Height	18 mm	13 mm	13.5 mm
4	Shore Hardness	38 to 42 Durometer A	38 to 42 Durometer A	38 to 42 Durometer A
5	Tensile Strength (minimum)	105 kg/cm <sup>2</sup> (min)	105 kg/cm <sup>2</sup> (min)	105 kg/cm <sup>2</sup> (min)
6	Ultimate elongation (minimum)	350% (min)	350% (min)	350% (min)
7	Tolerance in Diameter	(±) 1.0 mm	(±) 1.0 mm	(±) 1.0 mm
8	Tolerance in Height & other Dimension	(+) 0.0 mm, (-) 1.0 mm	(+) 0.0 mm, (-) 1.0 mm	(+) 0.0 mm, (-) 1.0 mm

**Note:-**

1. All the Acceptance Test shall be carried out as per relevant IS with Latest Amendment.
2. If facility of any acceptance test of above material is not available at firm's premises, then inspecting authority will send a sealed sample of the above material to NABL lab for such test and mentioned lot will be accepted only when it successfully pass in acceptance test. The cost of such test (s) shall be borne by the supplier firm.