

RAW MATERIAL SPECIFICATIONS FOR FILLING / FLOODING COMPOUND

1- SCOPE

This specification covers the cable filling & flooding compounds used in making jelly filled Telephone cable.

2- QUALITY REQUIREMENT

The filling compound shall be homogeneous, free from dirt, metallic particles or other foreign matter. It shall have no effect on the conductor insulation and shall be easily removable, non toxic and present no dermal hazards.

3- MATERIAL

The material supplied should have excellent water resistant properties and be fully compatible with polythene. It should also meet the following requirements.

Sr. No	parameter	Test method	Requirement
1	Permittivity at 23 °C	ASTM - D - 924	2.3 max
2	Volume resistivity at 100 °C/Ω cm	IEC 811-5-1 ASTM-D-1169	1x10 ¹² min
3	Volume resistivity at 23 °C/Ω cm	IEC 811-5-1 ASTM-D-257	1x10 ¹⁵ min
4	Melt drop point /°C	ASTM-D-566, D-127	85 min
5	Flash point/ °C	ASTM-D-92	232 min
6	Kinematic Viscosity at 100 °C / cSt	ASTM-D-445	20 -28

4- PACKING

The compound shall be packed in removable head drum, which shall be sealed to prevent contamination or moisture. The drum shall not have any dent and should be properly marked.

The drum conforms to BS 2003 standard as:

I.D drum	571.5 ±1.5	mm
High	833	mm
Sheet thickness	0.8 to 1.6	mm
Volumetric capacity	205	liters nominal

Each four drums must put on wooden pallet, secured by suitable hoops for easy handling and storage.

The supplier should mention the **way of storage** and the **lifetime** of the material.

5- TEST CERTIFICATE

The supplier shall submit test report each lot / batch of material.

6- CRITERIA OF ACCEPTANCE / REJECTION

The material shall be subjected to inspection and the test shall be carried out for Acceptance / rejection on part or whole lot.

7- SAMPLE

Each tenderer should provide 25 kg as a sample of material to reach us before closing date for making tests, unless his material is already successfully tested .

The sample shall be the basis for accepting or rejecting the offer.