

RAW MATERIAL SPECIFICATIONS FOR POLYESTERIMIDE WIRE ENAMEL

1. Scope

This specification covers the requirement of polyester-imide enamel enable production of wire having good flexibility and adhesion whilst consistently providing excellent surface quality on both horizontal and vertical enamelling machine over a wide range of operation conditions.

The mechanical and thermal properties of the enameled wire exceed the requirements of IEC 317 -8 and meet the needs of coil winders and motor manufacturers noted as markets leader in setting quality standards

2. Quality requirement

The temperature index is 200 C when use as a single coat and 220 C as base component of dual coat system

The wires enameled have very good chemical resistance and are compatible with all common impregnating materials and safely use in hermetic refrigeration compressor motors and oil filled transformers

The enamel is supplied with the following specification to meet the application needs of industry of round wires

The enamel will apply with dies or felt.

- The reference standards are: IEC 251- IEC 317 – IEC 851- DIN 46435 – DIN 46453
- The color of enameled wire : gold or golden brown

3. Material

Propriety	Unit	Requirements
Type		Base coat enamel
Viscosity at 23 °C	cps	750-850
Solid content	%	38-40
Temperature index	°C	200-220
Suitable for wires	mm	0.5 ÷ 3.00
Color after baking		Light Brown
Quantity	ton	

4. Packing

The material shall be properly packed in strong steel barrels 180 – 200 kg net in a manner that avoids problem in transportation & storage with safe tight closed opening

The material shall be marked for proper identification and clearly written on each barrel:

- Name of manufacturer
- Date of manufacture.
- Expire date.
- Net weight.

5. Test certificate

The supplier shall submit test report for 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

About 10 liters of material to be provided with the offer before closing date by express delivery. Sample shall be the basis for accepting or rejecting the offer.

Notes:

- The supplier must mention in his offer all our required specifications (physical, mechanical, thermal)
- the safety data sheet for enamel type that is necessary for operators, and storage validity without changing the characteristics of the standard enameling varnish
- If tenderer has any technical suggestions about our requirements ,we would be very interested to receive this suggestion