

(PREVIEW)

## *Indian Standard*

# **SPECIFICATION FOR PARTICULAR TYPES OF WINDING WIRES**

## **PART 15 POLYESTERIMIDE ENAMELLED ROUND ALUMINIUM WIRE CLASS 180**

### **1 SCOPE**

This standard specifies the requirements of enamelled round aluminium winding wire of Class 180 with a sole coating based on polyesterimide resin, which may be modified, provided it retains the chemical identity of the original resin and meets all specified wire requirements.

NOTE – A modified resin is a resin that has undergone a chemical change, or contains one or more additives to enhance certain performance of application characteristics.

Class 180 is a thermal class that requires a minimum temperature index of 180 and a heat shock temperature of at least 200°C.

The temperature in degrees Celsius corresponding to the temperature index is not necessarily that at which it is recommended that the wire be operated and this will depend on many factors, including the type of equipment involved.

The range of nominal conductor diameters covered by this standard is:

- Grade 1 : 0.250 mm up to and including 2.500 mm
- Grade 2 : 0.250 mm up to and including 2.500 mm

The nominal conductor diameters are specified in 4 of IS 13730 ( Part 0/Sec 3 ) : 1994.

### **2 REFERENCES**

IS 13730 ( Part 0/Sec 3 ) : 1994 Specification for particular types of winding wires : Part 0 General requirements, Section 3 Enamelled round aluminium wire'.