

Guaranteed Technical Particulars for
Super Enameled Aluminum winding wire of Grade-2 & class-130

Name of Firm :

Standard : IS:13730(Part-0/Sec-3) & 13730(Part-9) & other relevant IS with latest amendments.

Sl no	Particulars	Min Guaranteed Value		
1	Nominal Conductor Diameter (bare)	0.813 mm	0.91 mm	1.00 mm
2	conductor tolerance ± (mm)	0.008 mm	0.009 mm	0.010 mm
3	Minimum increase due to insulation	0.060 mm	0.063 mm	0.063 mm
4	Resistivity (ohm-mm2/ meter)	0.0280	0.0280	0.0280
5	Minimum Elongation %	12%	12%	12%
6	Minimum Tensile strength	90 N/mm2	90 N/mm2	90 N/mm2
7	Flexibility and adherence test			
	(i) Mandrel winding test (Nominal Conductor Diameters Up to and Including 1.600 mm)	The coating shall show no crack after the wire has been wound on a mandrel having diameter '3d' (d is the nominal diameter of wire).		
	(ii) Stretching test (Nominal Conductor Diameters Over 1.000 mm)	--NA--		
	(iii) Jerk test (Nominal Conductor Diameters Up to and Including 1.000 mm)	The coating shall show no crack or loss of adhesion		
8	Heat shock Test (Nominal Conductor Diameters Up to and Including 1.600 mm)	The coating shall show no crack. The minimum heat shock temperature shall be 155° C. The mandrel diameter shall '3d' (d is the nominal diameter of wire).		
9	Resistance to solvents Test	Using a pencil of hardness "H" the coating shall not be removed		
10	Minimum Breakdown voltage (At room Temperature)	5000 Volt (rms)		
11	Checking of conductors declared weight.	verification as per offer list at site		
12	Max Gross weight of each reel (with material)	12 Kg (approximate)		
Note :	1. The result shall cover all aspects of technical specification and relevant IS. 2. Each reel shall have the Name of manufacturer/supplier and details of Purchaser engraved/ embossed necessarily on it. 3. The conductor should remain at least half inch below the outer periphery of drum /reels so that the material is not damaged.			