

TECHNICAL DATA SHEET

ALUMINIUM ALLOY WIRE ROD 6201 GRADE (T4- TEMPER)

APPLICATION:

Aluminium Wire Rod specially used for various type of cable , all Aluminium conductor & Aluminium conductor steel reinforced conductor manufacturing due to Its availability & low cost. Its electrical conductivity minimum 61.0 % IACS .

PROPERTIES :

The rod is of uniform quality and temper, smooth , and free from pipes, laps, cracks, kinks, twists, seams, inclusions and other imperfections not consistent with good commercial practice. It is suitable for drawing into wire meeting in full the requirements established in the specifications ASTM B 233.

SPECIFICATION :

| Sr. No. | Property/Description | Unit | Guaranteed Value / Details |
|---------|----------------------|------------------------|---|
| A | Diameter | mm | 9.5 (+/- 0.51) |
| | | mm | 7.6 (+/- 0.40) (AS PER IS-5484 (1997)) |
| B | Tensile Strength | Mpa | 156.86 – 186.27 |
| C | Resistivity (Max.) | Ohm mm ² /m | 0.033806 |
| D | Conductivity (Min) | % IACS | 51.00 |
| E | Density at 20 Deg C | Kg/m ³ | 2690 |
| F | Surface | | The Rod shall be clean, sound smooth and free from pipes, laps ,cracks, kinks, twists, seams, damaged ends, excessive oil other injurious defects with in limit |
| G | Chemical Composition | % | Copper (Cu) Max 0.10 Iron (Fe) Max 0.50 Silicon(Si) 0.50 – 0.90 Manganese(Mn) Max 0.03 Magnesium 0.60 – 0.90 Zinc(Zn) Max 0.10 Chromium (Cr) Max 0.03 Boron (B) Max 0.06 Other Elements each (Max) 0.03 Elements Total (Max) 0.10 Aluminium (Min) Remainder |

Manufacturing Standard : ASTM B 398 / B 398 M -02

The Aluminium Alloy Rod after redraw into the final diameter of wire and under controlled heat treatment will comply with the requirements as per ASTM B 398

TEST :

Test to be carried out as per ASTM Standard .Test certificate will be submit along with every consignment

PACKING :

- I) During packing of the coils was taken into account the normal rules of safety during handling.
- II) Coil made in such a way that the material is wound in tight layers without joints.
- III) Pallet have openings four sides, being two to handle the pallet along with the coil and the two others to handle only the coil, a special opening was made in the skids.
- IV) The standard form of delivery is with axis ini a vertical, Eye to Sky on a wooden pallet, bound by a sufficient number of tight strips and with protection adapted to the mode of shipment, preventing any damage and preserving the metal from adverse weather and dirt.
- V) Coil is wrapped with a blanked of polyethylene in order to be protected from damage.

MARKING :

Each coils bear with a suitable tag having manufacturer's name, size, aluminum temper number, manufacturing lot no, net weight & material code.

COIL DIMENSION :

| | |
|--------------------|--------------------|
| Weight of the Coil | - 2000 Kg +/- 10 % |
| Inner Dia | - 550 to 600 mm |
| Outer Dia | - 1600 mm (Max.) |
| Traverse | - 900 mm |

Wooden Pallet Dimension :

| | |
|----------------|----------|
| Length & width | - 920 mm |
| Height | - 100 mm |

CONTAINER'S STUFFING AND VESSEL'S LOADING :

For 20 feet container, we can stuff 12 coils (6+6) approximately 24 MT, in eye to sky type.In conformance with the figure 1.

Figure 1 : Container 20 Feet with 12 coils approx. 24 MT weight.

