

## TECHNICAL DATA SHEET

### ALUMINIUM WIRE ROD EC GRADE

#### 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 (+/- 0.375 - 0.500)
		mm	12.5 (+/- 0.501 – 1.00)
		mm	7.6 (+/- 0.40 ) (AS PER IS-5484(1997))
B	Tensile Strength	Mpa	83 -- 117
C	Resistivity (Max.)	Ohm mm <sup>2</sup> /m	0.028035
D	Conductivity (Min)	% IACS	61.50
E	Density at 20 Deg C	Kg/m <sup>3</sup>	2705
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	%	Silicon (Si) Max            0.10 Iron (Fe) Max                0.40 Copper (Cu) Max            0.05 Manganese (Mn) Max        0.01 Chromium (Cr) Max         0.01 Zinc(Zn)                        0.05 Boron (B) Max                0.05 Galium (Ga) (Max)           0.03 Vanadium +Titanium (Max) 0.02 Other Elements each (Max) 0.03 Other Elements Total (Max) 0.10 <b>Aluminium (Min)                99.7</b>

**Manufacturing Standard :** ASTM B233-97

## 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 in 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) Protective wrapping is used with rust inhibitor, in order to retard moisture penetration.
- VI) 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.

