

TECHNICAL SPECIFICATION: ALUMINIUM RODS

DIAMETER

Specified diameter (mm)	Deviation of mean diameter from specified diameter (mm)	Deviation at any point from specified diameter (mm)
7.60	+0.4	+0.73
9.52	+0.51	+0.76
12.00	+0.51	+0.76

TENSILE & ELONGATION

Description (Temper)	Tensile Strength kgf/mm ²	Tensile Strength Mpa	Elongation % at 250mm GL (Min)
1350-H12	8.15-11.9	83-117	4.0
1350-H14	10.5-14.1	103-138	4.0

Description	Minimum Conductivity % IACS, Min	Volume Electrical resistivity at 20°C ohm.mm ² /m, Max
1350-H12	61.5	0.028035
1350-H14	61.4	0.028080

CONDUCTIVITY & RESISTIVITY

CHARACTERISTIC

Description	Unit	
Specific gravity	g/cm	2.705
Temperature coefficient at 20°C	per°C	0.00403

CHEMICAL COMPOSITION

Element	Composition (%)
Silicon	Max: 0.10
Iron	Max: 0.40
Copper	Max: 0.05
Manganese	Max: 0.01
Chromium	Max: 0.01
Zinc	Max: 0.05
Boron	Max: 0.05
Gallium	Max: 0.03
Vanadium & Titanium	Max: 0.02
Other elements, each	Max: 0.03
Other elements, total	Max: 0.10
Aluminum	Min: 99.5

FINISHING & APPEARANCE

The Aluminum Rod is delivered as a single continuous coil with no joints. The Rod will be clean, rid of excess oil and grease, uniformly lustrous, smooth, and free of flakes, flaws, kinks, dents, twists, and other corrosion or deficiencies.

PACKAGING

The coil ought to have the following traits:

Inner circumference: Approximately 500mm

Diameter of the outside: 1500mm maximum

Height: 850mm to 950mm

Each coil has a nominal weight of around 2000 + 200 kg.

Each coil must be securely secured to a pallet of wood. To prevent insect or fungal infestation, the pallet must be dry or free of moisture. To prevent corrosion or physical damage to the coil, proper protection should be given.

Each coil will be wrapped in a blank polyethylene sheet to protect it from damage and to prevent contamination of the rod's surface from the environment.