Aluminum 1350 & Aluminum Alloy Rods

Chemical Composotion

Elements		Composition (%)			
		1350	6201	6101	1120
Silicon	Max.	0.10	0.5 ~0.9	0.4 ~0.7	0.10
Iron	Max.	0.40	0.50	0.50	0.40
Copper	Max.	0.05	0.10	0.10	0.05 ~0.35
Manganese	Max.	0.01	0.03	0.03	0.01
Magnesium	Max.	-	0.6 ~0.9	0.4 ~0.7	0.20
Chromium	Max.	0.01	0.03	0.03	0.01
Zinc	Max.	0.05	0.10	0.10	0.05
Boron	Max.	0.05	0.06	0.06	0.05
Gallium	Max.	0.03	-	-	0.03
Vanadium & Titanium, Total	Max.	0.02	-	-	0.02
Other Elements, Each	Max.	0.03	0.03	0.03	0.03
Other Elements, Total	Max.	0.10	0.10	0.10	0.10
Aluminum	Min.	99.50	Remainder	Remainder	99.20

Mechanical & Electrical Properties

Elements	Tensile Strength	Conductivity	Volume Resistivity
	Kgf/mm	% IACS	Ohm.mm² /m
Aluminum 1350 Rod			
1350 - O	6.0 ~9.9	61.8	0.027899
1350 - H12 & H22	8.5 ~11.9	61.5	0.028035
1350 - H14 & H24	10.5 ~ 14.1	61.4	0.028080
1350 - H16 & H26	11.9 ~ 15.5	61.3	0.028126
Aluminum Alloy Rod *			
6201	16 ~19	51	0.033806
6101	16 ~19	52	0.033156
1120	17 ~18.5	58.8	0.029300

Diameter Tolerance

Specified Diameter	Deviation of mean Diameter from Specified Diameter	Deviation at any point from Specified Diameter
mm		
9.5	0.5	0.76
7.6	0.4	0.061

Electrical Properties of Aluminum Alloy Wires as per ASTM B398 & IEC 60104

Nominal Diameter (mm)		Tolerance	Resistivity	Conductivity
Over	Up to and including	mm	Ohm.mm² /m	% IACS
-	3.00	0.03	0.03284	52.5
3.00	-	1%	0.03284	52.5