KJV
A ZETWERK COMPANY

Aluminium Wire Rod – Technical Data Sheet

Chemical Composition of Aluminum Alloy Rod

Alloy	Chemical Composition (%)									Other Elements %		Al (%)	Standard Temper
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti+V	Zr	Each	Total		
1350	0.08	0.10 0.25	0.010	0.015	0.020	0.01	0.03	0.02		0.02	0.10	99.60	O/H12/H14/H16
6101	0.50 0.65	0.10 0.30	0.100	0.100	0.50 0.70	0.03	0.10	0.03		0.03	0.10	97.80	T4
6201	0.55 0.68	0.15 0.40	0.010 0.040	0.002 0.005	0.55 0.80	0.03	0.10	0.03		0.05	0.15	97.70	T4
60TAl	0.06	0.10 0.30	0.015					0.02	0.12	0.02	0.10	99.60	F
1120	0.10	0.12 0.22	0.05 0.25	0.01	0.03 0.14		0.05	0.02		0.03	0.10	99.10	F
Al59	0.35 0.45	0.06 0.18	0.005 0.015	0.01	0.33 0.43		0.05	0.02		0.03	0.10	98.50	T4

Specification of Aluminum Alloy Rod

Alloy	Conductivity (% IACS)	UTS	Elongation (%)	Main Application
1350-H	≥61.0	100-140 MPa 14.5-20.3 ksi	≥8.0	AAC, ACSR, ACSR/AW
1350-O	≥61.5	80-100 MPa 11.6-14.5 ksi	≥12	Extruding
6101	≥50.0	155-185 MPa 22.5-26.8 ksi	≥8.0	AAAC, AACSR, OPGW, AACSR/AW, AACSR/EST, ACAR, Preformed wires
6201	≥49.0	175-225 MPa 25.4-32.6 ksi	≥7.0	AAAC, AACSR, OPGW, AACSR/AW, AACSR/EST, ACAR, Preformed wires
60TAl	≥60.3	93-117 MPa 13.5-17.0 ksi	≥6.0	TACSR, TACSR/AW
1120	≥59.0	140-170 MPa 20.3-24.7 ksi	≥5.0	AAAC, AACSR, AACSR/AW
Al59	≥53.0	140-165 MPa 20.3-23.9 ksi	≥5.0	AAAC, AACSR, AACSR/AW

Rod Delivery Temper

- F – As continuously cast and rolled.
- T4 – In-line solution-treated, quenched and naturally aged.

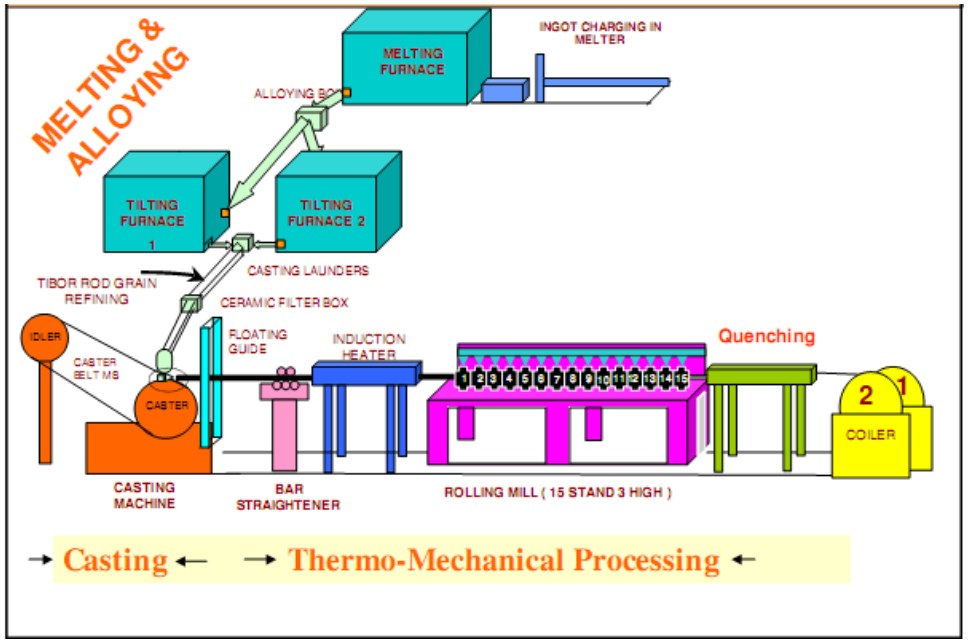
Diameter: 9.5 ± 0.30 mm (0.375 ± 0.012 inch)

Standard: GB/T 3954-2001, ASTM B233-97(2003)e1 etc.

Technical Merits: T4 Alloy vs Conventional Alloy Rod

- Uniform solutionising.
- No intermediate quenching will reduce cost and time of production.
- Smooth wire drawing with inlet size 7.6mm.
- Consistent metallurgical properties.
- Faster production with less breakages.
- Capital investment will be reduced since solutionising furnace is not required.

Continuous Casting and Rod Rolling Process



Packing Details

	Packing for Rod		Packing for Wire
Packing Forms	Coil		Reel
Type of Coil	Compact	Pattern Laid	DIN 630 / DIN 500
Nominal Packing Size – Outside Diameter	1500 mm	1800 mm	
Nominal Packing Size – Width	850 mm	1250 mm	
Nominal Packing Size – Internal Diameter	550 mm	1000 mm	
Packing Weight	1500 kg ± 15% 1950 kg ± 15%		DIN 630 / DIN 500

Wooden pallet may be applied.