



# 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	0.70	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
60TA1	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
A159	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	Characteristics			Main Application
	Conductivity %IACS	UTS	Elongation %	
1350-H	≥61.0	100-140MPa 14.5-20.3ksi	≥8.0	AAC, ACSR, ACSR/AW
1350-O	≥61.5	80-100MPa 11.6-14.5ksi	≥12	Extruding
6101	≥50.0	155-185MPa 22.5-26.8ksi	≥8.0	AAAC, AACSR, OPGW, AACSR/AW, AACSR/EST, ACAR, Preformed wires
6201	≥49.0	175-225MPa 25.4-32.6ksi	≥7.0	
60TA1	≥60.3	93-117MPa 13.5-17.0ksi	≥6.0	TACSR, TACSR/AW
1120	≥59.0	140-170MPa 20.3-24.7ksi	≥5.0	AAAC, AACSR, AACSR/AW
A159	≥53.0	140-165MPa 20.3-23.9ksi	≥5.0	AAAC, AACSR, AACSR/AW

### Rod Delivery Temper

**F** As continuously cast and rolled.

**T4** In-line solution-treated, quenched and naturally aged.

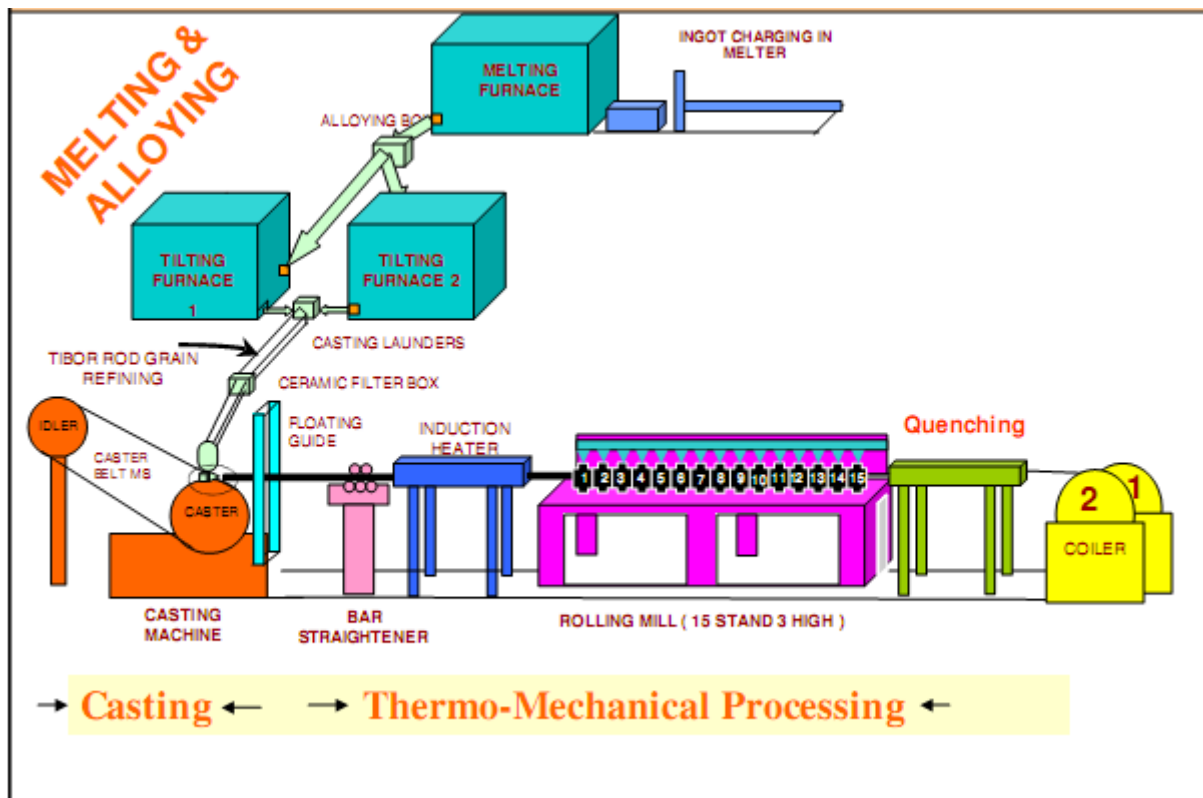
**Diamete:** 9.5 ± 0.30mm 0.375 ± 0.012inch

**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
Nominal Packing Size	Type of Coil	Compact	Pattern Laid	DIN 630/DIN500
	Outside Diameter	1500mm	1800mm	
	Width	850mm	1250mm	
	Internal Diameter	550mm	1000mm	
Packing Weight	1500kg ± 15% 1950kg ± 15%			DIN 630/DIN500

Wooden pallet may be applied.