LITMUS
INDUSTRIES LIMITED

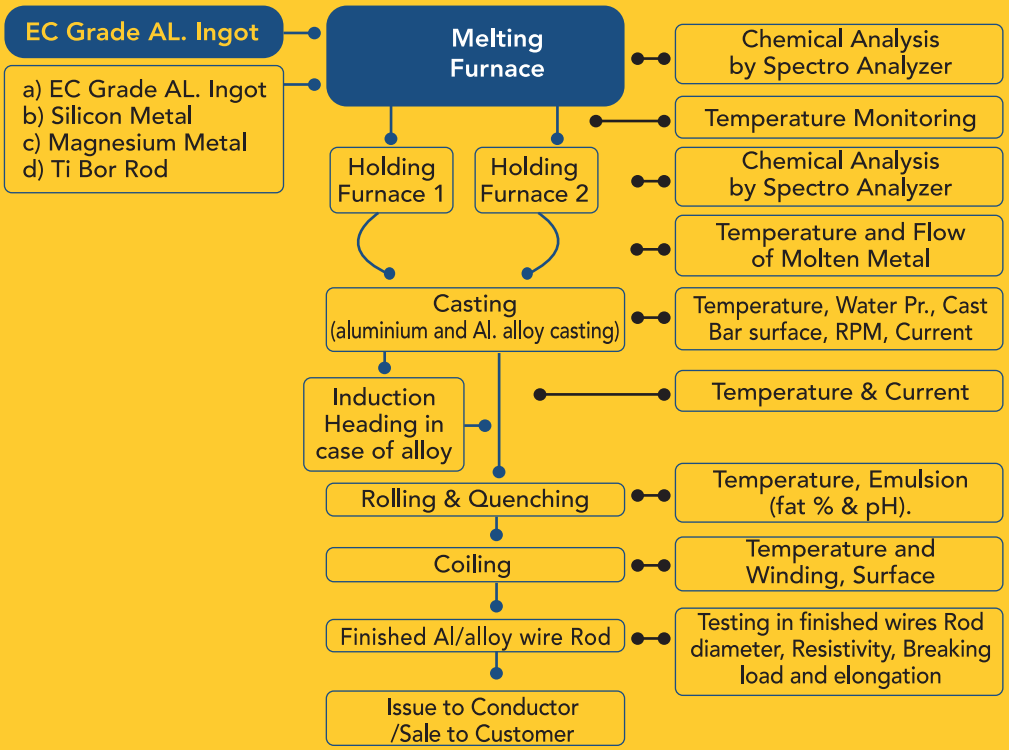
NEPAL'S LARGEST MANUFACTURER OF WIRES CABLES CONDUCTORS

ALUMINUM ROD

After establishing itself as Nepal's leading manufacturer of wires, cables, and conductors, Litmus Industries is now expanding into aluminium rod manufacturing. Committed to quality, innovation, and sustainability, Litmus Aluminium Rod is designed for superior conductivity, strength, and reliability. Manufactured with high-purity aluminium and advanced technology, it meets international standards, making it ideal for electrical transmission, distribution, and industrial applications. This expansion reinforces Litmus's mission to drive Nepal's industrial growth while ensuring a sustainable and self-reliant future.

Specifications for EC 1350 (H12, H14 and 0 Temper)
Size available: 7.6mm, 9.5mm, and 12mm

MANUFACTURING PROCESS

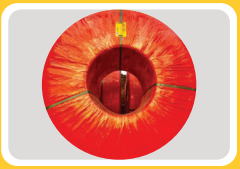


Aluminum Rod

Aluminum Wire Rods – Engineered for Excellence in Electrical Conductivity, Strength & Versatile Applications High-quality aluminum and alloy wire rods designed to meet diverse performance needs —from standard EC-grade to high-strength and specialty alloys. Suitable for power transmission, overhead conductors, cable sheathing, and industrial applications, ensuring optimal mechanical properties, conductivity, and processing compatibility

Aluminum & Alloy Wire Rods –High Conductivity Superior Strength | Versatile Applications



EC | T4 | AL-59 | 8176

EC Grade – Low UTS "O" Temper			
Property	Unit	Min	Max
UTS	MPa	90	100
Elongation (GL=250 mm)	%	14.0	–
Resistivity	ohm·mm²/ KM	–	27.898
Conductivity	% IACS	61.80	–
Si	%	–	0.10
Fe	%	–	0.40
Cu	%	–	0.05
Mn	%	–	0.01
Cr	%	–	0.01
Zn	%	–	0.05
B	%	–	0.05
Ti + V	%	–	0.02
Al	%	99.50	Balance

EC Grade – High UTS "H12 And H14"			
Property	Unit	Min	Max
H12-UTS	MPa	101	110
H14-UTS	MPa	111	138
Elongation (GL=250 mm)	%	8.0	–
Resistivity	ohm·mm² /KM	–	28.034
Conductivity	% IACS	61.50	–
Si	%	–	0.10
Fe	%	–	0.40
Cu	%	–	0.05
Mn	%	–	0.01
Cr	%	–	0.01
Zn	%	–	0.05
B	%	–	0.05
Ti + V	%	–	0.02
Al	%	99.50	Balance

8176 Aluminum Alloy			
Property	Unit	Min	Max
UTS	MPa	100	120
Elongation (GL=250 mm)	%	10.0	–
Resistivity	ohm·mm²/KM	–	28.450
Conductivity	% IACS	60.60	–
Si	%	0.03	0.15
Fe	%	0.40	1.00
Zn	%	–	0.10
Al	%	Remainder	–

T4 Aluminum Alloy			
Property	Unit	Min	Max
UTS	MPa	160	–
Elongation (GL=250 mm)	%	14.0 / 10.0	–
Conductivity	% IACS	50.00	–
Si	%	0.50	0.90
Mg	%	0.60	0.90
Fe	%	–	0.50
Cu	%	–	0.10
Mn	%	–	0.03
Cr	%	–	0.03
Zn	%	–	0.10
Al	%	Remainder	–

Al-59 Alloy			
Property	Unit	Min	Max
UTS	MPa	140	–
Elongation (GL=250 mm)	%	14.0	–
Conductivity	% IACS	54.70	–
Si	%	0.30	0.40
Mg	%	0.30	0.40
Fe	%	0.14	0.20
Cu	%	0.015	0.020
Mn	%	–	0.01
Cr	%	–	0.01
Zn	%	–	0.01
B	%	–	0.01
Al	%	Remainder	–

PACKING

The coil shall be supplied with following dimension:

Inner diameter	Outer diameter	Height
Approximately 550mm	1500mm maximum	850mm to 950mm

The nominal weight for each coil approximately 2000 ± 200kg.

Each coil shall be securely strapped to a timber pallet. The pallet shall be dry or free from moisture to prevent insect or fungal attack.

Adequate protection shall be provided to prevent corrosion or physical damage to the coil. Each coil shall be wrapped with a blank polyethylene in order to be protected from damage and prevent contamination to the rods surface which might cause from the environment.

FINISHING & APPEARANCE

The Aluminium Rod is supplied in the form of a continuous coil without any joints. The Rod shall be clean, without any excessive oil & grease, of uniform lustre, smooth and free from flakes, cracks, kinks, dents, twists, and other injury or defects.

TECHNICAL SPECIFICATION

Aluminum Designation	Temper	Diameter	Tensile Strength (Mpa)		Elongation (%)		Conductivity	Standard
			Min	Max	Min	Max	Min	
1350	O	9.50 MM +/-0.51 MM	90	100	14.0		61.8	IS 5484/ ASTM B-233
	H12	12.70 MM +/- 0.51 MM	101	110	8.0		61.5	
	H14		111	138	6.0		61.4	
Aluminum Alloy	T4	7.60 MM +/- 0.40 MM	160		10.0		50.0	IS 9997/ ASTM B-398
		9.50 MM +/-0.51 MM			14.0			
		12.70 MM +/- 0.51 MM			14.0			
	AI-59	9.50 MM +/-0.51 MM	140		14.0		54.70	SS4240813
		12.70 MM +/- 0.51 MM						
	8176	9.50 MM +/-0.51 MM	100	120	10.0		60.60	ASTM B 800

NS QUALITY AWARD WINNER

Corporate Office:
Ramesh Tower, Tripureswor
Kathmandu, Nepal

Factory:
Ramgram-16, Hakui
West Parasi, Nepal

Contact:
Litmus@rameshcorp.com +977-9709089265 litmus.com.np