

Electrifying Nepal Since 1977. Now Going Global.

Litmus Industries Limited is Nepal's first and largest manufacturer of wires, cables, and conductors and the country's sole manufacturer of aluminium and alloy rods. With nearly five decades of manufacturing expertise, Litmus has become a trusted name in electrical infrastructure. Our aluminium and alloy rods are manufactured to ASTM and SS standards, reinforcing their quality and global readiness.

With 250,000+ KM of overhead conductors supplied across Nepal's internal and cross-border transmission and distribution networks, and products backed by BIS, PGCIL, KEMA, TAG and CPRI credentials, Litmus is now taking its proven capabilities to global markets.

LITMUS ALUMINIUM WIRE RODS

Litmus brings a downstream conductor manufacturer's understanding to upstream aluminium rod manufacturing. That means attention to the characteristics that matter after the rod leaves the factory - conductivity, drawability, chemistry, mechanical properties, surface condition and coil-to-coil consistency.

Our proposition: We don't just make aluminium rod. We understand what it takes to turn it into a reliable conductor.



Why Litmus Aluminium Rods ?

01	CONDUCTIVITY	Designed for electrical applications where consistent conductivity matters.
02	DRAWABILITY	Process control supports smooth and consistent downstream wire processing.
03	CONSISTENCY	Controlled chemistry, temperature, rolling and coiling processes support repeatable performance.
04	SURFACE QUALITY	Continuous rod with controlled surface condition for downstream processing.
05	END-USE EXPERIENCE	Litmus manufactures wires, cables and conductors so the rod is developed with downstream requirements in mind.
06	GLOBAL INTENT	A proven Nepalese electrical manufacturer now building an aluminium rod business for regional and international markets.

Product Portfolio

EC Grade Aluminium Rod

For electrical applications requiring high conductivity and reliable wire-drawing performance.

Aluminium Alloy Rod

For applications requiring a balance of conductivity, strength and mechanical performance.



EC



T4



AL-59



8176

Controlled From Melt to Finished Rod

1.	INPUT MATERIAL EC-grade aluminium ingot and alloying additions
2.	MELTING Melting furnace with process monitoring
3.	CHEMICAL CONTROL Spectro analysis and controlled chemistry
4.	HOLDING Holding furnaces and temperature control
5.	CASTING Aluminium and aluminium-alloy casting
6.	ROLLING & QUENCHING Controlled temperature, current and emulsion parameters
7.	COILING Controlled winding and surface monitoring
8.	FINISHED ROD TESTING Diameter, resistivity, breaking load and elongation

Quality Controls That Matter to Rod Processors

CHEMISTRY	Controlled alloy chemistry and spectro analysis.	TEMPERATURE	Monitoring across melting, casting and rolling.
DIMENSION	Finished-rod diameter checked against specification.	ELECTRICAL	Resistivity/conductivity testing.
MECHANICAL	Breaking load and elongation testing.	SURFACE	Visual and winding/surface checks.

Quality philosophy: Every coil should perform consistently - not just test successfully.

Technical Specifications

Designatio	Temper	Diamete	Tensile Strength (Mpa)	Elongation (%)	Conductivity	Standard
1350	O	9.50 ± 0.51 mm	90–100	Min. 14.0	Min. 61.8	IS 5484 / ASTM B-233
1350	H12	12.70 ± 0.51 mm	101–110	Min. 8.0	Min. 61.5	IS 5484 / ASTM B-233
1350	H14	12.70 ± 0.51 mm	111–138	Min. 6.0	Min. 61.4	IS 5484 / ASTM B-233
Aluminium Alloy	T4	7.60 ± 0.40 mm	160 min.	10.0 / 14.0	50.0 min.	IS 9997 / ASTM B-398
		9.50 ± 0.51 mm				
		12.70 ± 0.51 mm				
Al-59	—	9.50 ± 0.51 mm 12.70 ± 0.51 mm	140 min.	14.0	54.70 min.	SS4240813
8176	—	9.50 ± 0.51 mm	100–120	10.0	60.60 min.	ASTM B 800

Packing & Finishing

Inner diameter	Outer diameter	Height	Nominal coil weight
Approximately 550mm	1500 mm maximum	850–950 mm	Approximately 2,000 ± 200 kg

Each coil is securely strapped to a timber pallet and protected against moisture, corrosion, physical damage and contamination. The supplied profile specifies a continuous coil without joints.

Finishing & appearance: clean rod, uniform lustre and smooth surface, free from flakes, cracks, kinks, dents, twists and other visible defects.

Trusted by the Electrical Industry

The supplied company profile presents Litmus as an established supplier to domestic and international electrical-industry customers. The customer references below are reproduced from the supplied profile.

International Clients



Domestic Clients



नेपाल वायर एण्ड केबल्स प्रा. लि.
Nepal Wire & Cables Pvt. Ltd.



Certifications



पावरग्रिड
POWERGRID



LET'S BUILD A BETTER CONDUCTOR TOGETHER.

Discuss with us

Product specifications | Samples | Technical discussions | Trial orders | Regular supply

Corporate Office:
Ramesh Tower, Tripureswor
Kathmandu, Nepal

Factory:
Ramgram-16, Haku
West Parasi, Nepal

Product:
Aluminium EC Rod
& Aluminium Alloy Rod

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