

Aluminum Rod

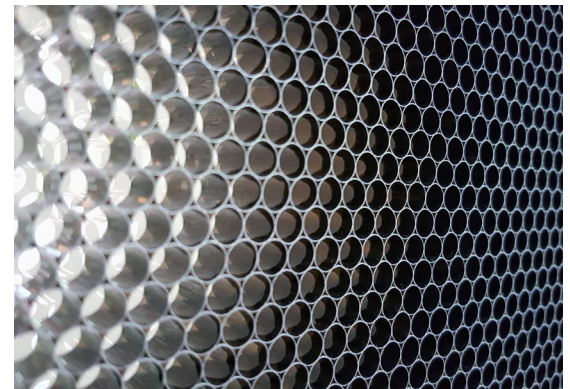
ALASTA provides a single source for best-in-class Aluminum Rod products, technologies and solutions to support countless applications including construction, utility, automotive, food, textile, electronic, electrical, welding & transportation.

ALASTA aluminum redraw rod is produced using current state-of-the-art technology in a production facility with greater than 50 years of production history. This high-quality continuous cast rod is produced in a variety of different alloys, tempers and diameters suitable for either mechanical or electrical applications. The rod is manufactured to meet a wide range of Aluminum Association requirements, global compositions and customer-unique specifications. Stringent testing and inspections are carried out at every stage of the manufacturing process to ensure consistent quality and strict conformance to customer requirements. Technical staff with extensive knowledge and expertise is available for technical application consultation and process optimization.

Each coil is identified with product-specific details.

A variety of material packaging options are available for safe transportation to the point of delivery via over the road trucks, rail, and ocean vessel. Coils can be shipped either in an upright position (“eye-to-the-horizon”) or in horizontal position (“eye-to-the-sky”).

Contact us for a consultation on how our best-in-class aluminum rod can provide the competitive edge for your products.



Applications:

- Cold Heading
- Metallizing
- Welding
- Strip
- Electrical Conductor
- Conform Extrusion
- Copper Cladding
- Chain Link Fence
- Nail
- Food Clips
- Insect Screen
- Braid Wire
- Armor Rod Stock
- Deoxidizing Rod

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Alloy/ Temper Designations (2,3)	Ultimate tensile strength			Volume conductivity at 20 °C (68 °F)	Electrical resistivity at 20 °C (68 °F)	Typical Applications
	ksi	MPa	kgf/mm ²	% IACS, min	Ω mm ² /m, max	
1080-H14	16.0 – 18.9	110 – 130	11.2 – 13.3			Various
1100-H14	17.4 – 20.3	120 – 140	12.2 – 14.3			Cold Heading, Metallizing, Welding, Strip
1188-H14	16.0 – 18.9	110 – 130	11.2 – 13.3			Metallizing
1350-O	8.7 – 11.6	60 – 80	6.1 – 8.2	61.8	0.027898	Electrical Conductor
1350-H12	13.1 – 16.0	90 – 110	9.2 – 11.2	61.5	0.028034	Electrical Conductor
1350-H14	16.0 – 18.9	110 – 130	11.2 – 13.3	61.4	0.028080	Electrical Conductor
1350-H16	18.9 – 21.8	130 – 150	13.3 – 15.3	61.3	0.028126	Electrical Conductor
2017-F	31.9 – 36.3	220 – 250	22.4 – 25.5			Cold Heading
2117-F	27.6 – 31.9	190 – 220	19.4 – 22.4			Cold Heading
3003-O	13.8 – 18.1	95 – 125	9.7 – 12.7			Extrusion
4043-O	18.9 – 23.2	130 – 160	13.3 – 16.3			Welding
4043-F	23.9 – 28.3	165 – 195	16.8 – 19.9			Welding
4047-O	19.6 – 23.9	135 – 165	13.8 – 16.8			Electrical Conductor, Strip
5005-H12	19.6 – 22.5	135 – 155	13.8 – 15.8	54.0	0.031928	Electrical Conductor
5005-H16	23.9 – 26.8	165 – 185	16.8 – 18.9	53.8	0.032046	Electrical Conductor
5052-O	26.8 – 31.2	185 – 215	18.9 – 21.9			Chain Link Fence, Cold Heading, Nail
5052-F	33.4 – 37.7	230 – 260	23.5 – 26.5			Chain Link Fence, Cold Heading, Nail, Strip
5056-F	38.4 – 42.8	265 – 295	27.0 – 30.1			Cold Heading, Nail
5154-F	37.7 – 42.1	260 – 290	26.5 – 29.6			Cold Heading, Food Clips
5154A-O	31.2 – 35.5	215 – 245	21.9 – 25.0			Insect Screen, Braid Wire
5154A-F	37.0 – 41.3	255 – 285	26.0 – 29.1			Insect Screen, Braid Wire, Strip
5356-O	39.9 – 44.2	275 – 305	28.0 – 31.1			Welding
5356-F	44.2 – 48.6	305 – 335	31.1 – 34.2			Welding
6061-T4(1)	26.8 – 31.2	185 – 215	18.9 – 21.9			Armor Rod Stock, Cold Heading, Nail
6061-F	24.7 – 29.0	170 – 200	17.3 – 20.4			Armor Rod Stock, Cold Heading, Nail
6101-T4(1)	23.2 – 27.6	160 – 190	16.3 – 19.4	51.5	0.033478	Electrical Conductor
6201-T4(1)	23.2 – 27.6	160 – 190	16.3 – 19.4	51.5	0.033478	Electrical Conductor
8030-H14	17.4 – 20.3	120 – 140	12.2 – 14.3	58.5	0.029472	Electrical Conductor
8176-H14	16.7 – 19.6	115 – 135	11.7 – 13.8	60.0	0.028735	Electrical Conductor

- Notes:**
- (1) Mechanical properties prior to natural aging.
 - (2) Other alloys and tempers may be available upon inquiry.
 - (3) Nominal rod diameters: 9.5mm (3/8"), 12mm (1/2"), 15mm (5/8"), 17.5mm (11/16"), 22mm (7/8"). Other diameters may be available upon inquiry.