

Aluminum Rod

ALASTA provides a single source for best-in-class Aluminum Rod & Strip 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 state-of-the-art technology. This high-quality continuous cast rod is produced in a variety of different alloys 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 unsurpassed knowledge and expertise is available for technical application consultation and process optimization.

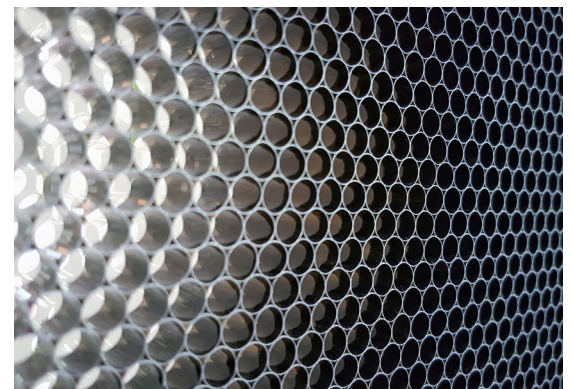
Each coil is identified with product-specific details.

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
- Extrusion
- Chain Link Fence
- Nail
- Food Clips
- Insect Screen
- Braid Wire
- Armor Rod Stock



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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
	MPa	ksi	kgf/mm ²	% IACS, min	Ω mm ² /m, max	
1080-H14	110 – 130	16.0 – 18.9	11.2 – 13.3			Various
1100-H14	120 – 140	17.4 – 20.3	12.2 – 14.3			Cold Heading, Metallizing, Welding, Strip
1188-H14	110 – 130	16.0 – 18.9	11.2 – 13.3			Metallizing
1350-O	60 – 80	8.7 – 11.6	6.1 – 8.2	61.8	0.027898	Electrical Conductor
1350-H12	90 – 110	13.1 – 16.0	9.2 – 11.2	61.5	0.028034	Electrical Conductor
1350-H14	110 – 130	16.0 – 18.9	11.2 – 13.3	61.4	0.028080	Electrical Conductor
1350-H16	130 – 150	18.9 – 21.8	13.3 – 15.3	61.3	0.028126	Electrical Conductor
2017-F	220 – 250	31.9 – 36.3	22.4 – 25.5			Cold Heading
2117-F	190 – 220	27.6 – 31.9	19.4 – 22.4			Cold Heading
3003-O	95 – 125	13.8 – 18.1	9.7 – 12.7			Extrusion
4043-O	130 – 160	18.9 – 23.2	13.3 – 16.3			Welding
4043-F	165 – 195	23.9 – 28.3	16.8 – 19.9			Welding
5005-H12	135 – 155	19.6 – 22.5	13.8 – 15.8	54.0	0.031928	Electrical Conductor
5005-H16	165 – 185	23.9 – 26.8	16.8 – 18.9	53.8	0.032046	Electrical Conductor
5052-O	185 – 215	26.8 – 31.2	18.9 – 21.9			Chain Link Fence, Cold Heading, Nail
5052-F	230 – 260	33.4 – 37.7	23.5 – 26.5			Chain Link Fence, Cold Heading, Nail, Strip
5056-F	265 – 295	38.4 – 42.8	27.0 – 30.1			Cold Heading, Nail
5154-F	260 – 290	37.7 – 42.1	26.5 – 29.6			Cold Heading, Food Clips
5154A-O	215 – 245	31.2 – 35.5	21.9 – 25.0			Insect Screen, Braid Wire
5154A-F	255 – 285	37.0 – 41.3	26.0 – 29.1			Insect Screen, Braid Wire, Strip
5356-O	275 – 305	39.9 – 44.2	28.0 – 31.1			Welding
5356-F	305 – 335	44.2 – 48.6	31.1 – 34.2			Welding
6061-T4(1)	185 – 215	26.8 – 31.2	18.9 – 21.9			Armor Rod Stock, Cold Heading, Nail
6061-F	170 – 200	24.7 – 29.0	17.3 – 20.4			Armor Rod Stock, Cold Heading, Nail
6101-T4(1)	160 – 190	23.2 – 27.6	16.3 – 19.4	51.5	0.033478	Electrical Conductor
6201-T4(1)	160 – 190	23.2 – 27.6	16.3 – 19.4	51.5	0.033478	Electrical Conductor
8030-H14	120 – 140	17.4 – 20.3	12.2 – 14.3	58.5	0.029472	Electrical Conductor
8176-H14	115 – 135	16.7 – 19.6	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) Standard nominal rod diameters: 9.5 mm (3/8") and 12 mm (1/2"). Other diameters are available upon inquiry.