

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.

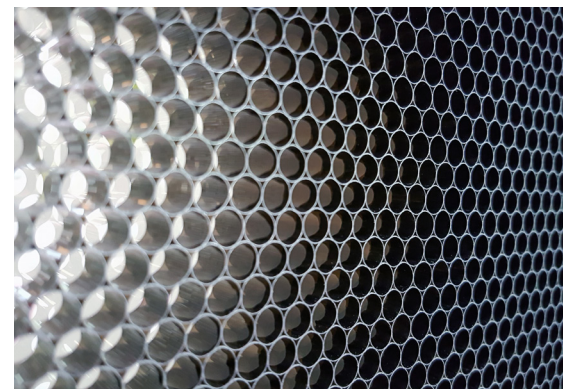
Each coil is identified with product-specific details.

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



Aluminum Rod

| 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 |
| 1350-0 | 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 |
| 3003-0 | 95 – 125 | 13.8 – 18.1 | 9.7 – 12.7 | | | Extrusion |
| 4043-0 | 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 |
| 5052-0 | 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-0 | 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 |
| 5356-0 | 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.