

Parameter	Details
Material	Pure aluminum (e. g., 1060, 1070) and aluminum alloys (e. g., 6061, 6063, 7075)
Condition	Annealed (O), Quenched + Natural Aging (T4), Quenched + Artificial Aging (T6)
Diameter	Usually from a few mm to hundreds of mm
Length	Commonly 1 - 6 m, customizable
Density	Approximately 2.7 g/cm <sup>3</sup> (varies for alloys)
Melting Point	Pure aluminum: about 660°C; Alloys: 550 - 650°C
Tensile Strength	Pure aluminum: 90 - 120 MPa; 6061 - T6: about 260 MPa; 7075 - T6: over 500 MPa
Yield Strength	Pure aluminum: 30 - 50 MPa; 6061 - T6: about 240 MPa; 7075 - T6: about 455 MPa
Elongation	O - state: 20% - 30%; T6 - state alloys: 8% - 12%
Hardness	Pure aluminum: HB 20 - 30; 6061 - T6: HB 95 - 100; 7075 - T6: HB 150 - 160
