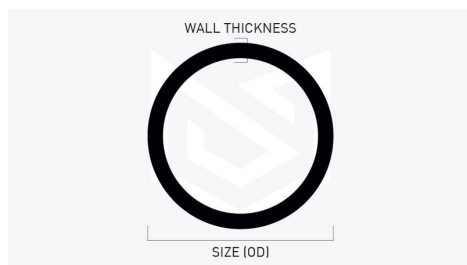


## Aluminum Round Tube/Pipe

The round tubes/pipes are available in the following aluminum alloy: 6061, 6082, 6086. The 6000 series aluminum round tube is a readily machinable and weldable product. It is made with silicon and magnesium. This heat treated aluminum has the highest corrosion resistance in its class, but is less strong than other heat treated aluminum alloys. This is why it's widely used in various industries. The applications is commonly used for marine components. It can also be used for heavy duty structures that need metals with high resistance to corrosion and good strength-to-weight ratios.

This product can be hardened using heat treatment. When in the annealed condition, 6061 aluminum alloys can be cold worked using standard methods. This enables it to be drilled, stamped, cut, bent, tapped and deep drawn. 6061 aluminum grades can be welded using any of the common methods.

### Specification of Extruded Aluminum Round Tube:



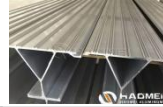
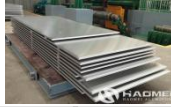
Size Range OD (mm)

8-150mm

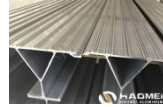
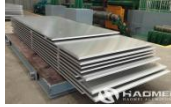
Wall Thickness (mm)

0.5-20mm

Pipe Designation	Size	Schedule Number	Outside Dia (inches)	Inside Dia. (inches)	Approx.Wt. (lbs./lineal ft.)
1/2		40	0.84	0.622	0.294
		80	0.84	0.546	0.376
3/4		40	1.05	0.824	0.391
		80	1.05	0.742	0.51
1		40	1.315	1.049	0.581



	80	1.315	0.957	0.751
1 - 1/4	40	1.66	1.38	0.786
	80	1.66	1.278	1.037
1 - 1/2	40	1.9	1.61	0.94
	80	1.9	1.5	1.256
2	10	2.375	2.157	0.913
	40	2.375	2.067	1.264
	80	2.375	1.939	1.737
2 - 1/2	40	2.875	2.469	2.004
	80	2.875	2.323	2.65
3	40	3.5	3.068	2.621
	80	3.5	2.9	3.547
3 - 1/2	40	4	3.548	3.151
	80	4	3.364	4.326
4	40	4.5	4.026	3.733
	80	4.5	3.826	5.183
5	40	5.563	5.047	5.057
	80	5.563	4.813	7.188
6	40	6.625	6.065	6.564
	80	6.625	5.761	9.884
8	40	8.625	7.981	9.878
	80	8.625	7.625	15.01
10	40	10.75	10.02	14.004



## Features of 6061 T6 aluminum round tube

- High Strength: 6061-T6 aluminum offers good strength-to-weight ratio, making it suitable for structural applications where strength is critical.
- Excellent Weldability: This alloy can be easily welded using various techniques, including TIG (tungsten inert gas), MIG (metal inert gas), and resistance welding, allowing for the fabrication of complex structures.
- Corrosion Resistance: 6061-T6 aluminum exhibits excellent resistance to corrosion, particularly in environments where it is exposed to moisture and other corrosive elements.
- Machinability: While aluminum in general is known for its excellent machinability, 6061-T6 is particularly easy to machine, allowing for precise shaping and finishing.
- Versatility: Due to its combination of strength, lightweight nature, and corrosion resistance, 6061-T6 aluminum round tubes find applications across various industries, including aerospace, automotive, marine, construction, and recreational equipment.
- Anodizing Capability: The 6061 alloy can be easily anodized to enhance its surface properties, such as hardness and corrosion resistance, as well as to provide decorative finishes.
- Heat Treatable: 6061-T6 aluminum can be heat-treated to further enhance its mechanical properties, such as tensile strength and hardness, making it suitable for demanding applications.

## Application of aluminum round tube:

- Marine: Utilized for boat frames, masts, railing, and other marine components due to its resistance to corrosion in saltwater environments.
- Construction: Used in construction applications such as scaffolding, handrails, and support structures due to its strength, durability, and corrosion resistance.
- Industrial Equipment: Used in the fabrication of industrial machinery, conveyor systems, and equipment frames due to its strength, machinability, and corrosion resistance.

## Pictures of aluminum round pipe:

