

ASTM B221 Grade 6063 T5 Aluminum tube

6063-T5 The medium-strength, heat-treatable alloy aluminum is renowned for its exceptional workability, corrosion resistance, and superb surface quality. It is frequently employed in structural and architectural applications.

Alloy 6063, a heat-treatable alloy with 0.7% magnesium and 0.4% silicon, has good mechanical qualities and is widely accessible in a variety of extruded sections. Because of its ready extrudability, it can be used to create complex hollow structures with thin walls. Standard profiles include hollow circular and square sections, flats, angles, and channels. Polishing, chemical brightening, anodizing, and dyeing all work well on 6063.

What is the material 6063-T5?

The aluminum alloy 6063 T5 is designated according to a certain temper. This is an explanation of what it implies.

The alloy designation 6063, which belongs to the 6xxx family (Al-Mg-Si), indicates that silicon and magnesium are the primary alloying elements, with aluminum making up the majority of the alloy. Because of its exceptional polish qualities, moderate strength, and strong resistance to corrosion, 6063 is frequently utilized for structural and architectural applications.

T5: The temper designation indicates that the substance was:

cooled from a high-temperature shaping process (like extrusion) and then artificially aged.

It maintains good workability and surface polish while achieving a medium level of strength.

A frequent name for 6063 is the architectural alloy. It was created as an extrusion alloy with outstanding finishing qualities, a high level of corrosion resistance, and comparatively high tensile strengths. The most common architectural applications for this alloy are windows, doors, storefronts, and other trim pieces, both inside and outside buildings. It is the alloy that works best for anodizing, whether it is simple or comes in a range of colors.

We provide round tubes made of ASTM B221 Grade 6063 T5 aluminum alloy.

Round Tube of ASTM B221 Grade 6063 T6 Aluminum Alloy & Profile tubes made of aluminum alloy for use with pneumatic cylinders and pneumatic equipment.

6063 T5 is used to make round aluminum alloy tubes. Anodizing makes smooth-surfaced aluminum alloy round tubes unnecessary for further repainting. Round aluminum alloy tube that is lightweight, corrosion-resistant, and of excellent quality. Pneumatic cylinders, portable devices, and other kinds of air pressure and pneumatic equipment can all be used with aluminum alloy round tubes.

6063 aluminum in the T5 temper is known as 6063-T5 aluminum.

Aluminum Alloy Tube, Pneumatic Cylinder Tube: This is the authentic aluminum alloy pipe due to its anodized 6063 T5 surface. It is three times as resilient to wear as standard chrome

plating. waterproof, insulating, and resistant to erosion. Light and unplated, ready for usage. Please get in touch with us online if you're interested in our aluminum alloy tub or pneumatic cylinder tube.

Characteristics of Aluminum 6063-T5:

Strength: Not as high as 6061, but adequate for a variety of structural uses.

Because of its high corrosion resistance, it is perfect for outdoor and marine applications.

Surface Finish: Outstanding, frequently anodized for a more polished look.

Workability: Good, making forming, welding, and cutting simple.

Aluminum Air Cylinder Tube Manufacturers

- super durability against abrasion.
- accurate dimension.
- easy handling.
- light and corrosion-resistant, nonmagnetic.

ASTM B221 6063 T5 TUBE FOR PNEUMATIC CYLINDER												
ASTM B221 6063 T5 Chemical Composition												
Specification	Si	Fe	Oj	Mn	Mg	Cr	Zn	Ti	others		Al	
									each	total		
AA6063	0.20										Rest	Min.
	0.60	0.35	0.10	0.90	0.10	0.10	0.10	0.05	0.15			Max.
Round Tube Outer Diameter	8mm, 10mm, 12mm, 15mm, 16mm, 20mm, 22mm, 25mm, 28 mm, 45 mm, 50 mm, 50.8 mm, 60 mm, 70 mm, 80 mm, 100 mm, 101.1 mm, 150 mm, 177.8 mm, 200 mm, 250 mm, 300 mm, 400 mm, 500 mm, 573 mm, 600 mm, etc.											
Square Tube Dimension	8x8mm, 12x12mm, 14x14mm, 20x20mm, 25x25mm, 30x30mm, 50x50mm, 101.6*101.6mm, 203.2*203.2mm, 228*228mm, 250*250mm, 350*350mm etc											
Rectangle Tube Dimension	18x12mm, 30x20mm, 40x20mm, 40x30mm, 60x30mm, 60x40mm, 70x40mm, 50x25mm, 60x40mm, 50x30mm, 80x50mm, 100x50mm, 100*240mm, 101.6*203.2mm, 150*250mm, 200*300mm etc											