Aluminum 6063 | EN AW-6063 | 62400| AlMg0,7Si

Aluminum 6063 offers good finish and corrosion resistance for architectural parts.

Mechanical properties

Ultimate tensile strength	110-210 MPa
Yield strength	55-130 MPa
Young's modulus (modulus of elasticity)	68 - 69 GPa
Elongation at break	8-18 %

Physical properties

Corrosion resistance	High
Magnetism	Non-magnetic
Weldability	Good

Thermal properties

Thermal expansion coefficent	23 - 25.6 10^-6/ºC
Thermal conductivity	190 - 220 W/(m·°C)

Electrical properties

Electrical resistivity	3.32 µΩ*cm

Post treatments

Post-Processing	Hot & Cold working, Aging, Hardening
Anodizing compatibility	Suitable

Common applications

Architectural products	
Door and windows frames	

Electrical components	
Pipe and tubes for irrigation systems	

Aluminum 6063 CNC Machining Applications & Parts

Known as the 'architectural alloy', Aluminum 6063 offers high tensile properties, excellent surface finish, and is highly extrudable. It is primarily used for applications where appearance and complex cross-sections are important.

Typical Parts We Machine from 6063:

- **Architectural & Design:** Window frames, door frames, roof extrusions, furniture trim, lighting rails
- **Consumer Products:** Appliance trim, electrical housings, heat sinks, irrigation systems, pipes and tubes

Our Machining Advantage:

We machine 6063 to achieve very smooth, high-quality finishes that are ideal for anodizing and painting, making it perfect for visible consumer and architectural components.

Get an Instant Quote for your custom Aluminum 6063 parts today.