

Material type

**Metal**

Material name

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

Alternative names

**AlMg0,7Si**

Process compatibility

**CNC machining****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  
coefficient 23 - 25.6  $10^{-6}/^{\circ}\text{C}$ Thermal conductivity 190 - 220 W/(m $\cdot$ °C)**Electrical properties**Electrical resistivity 3.32  $\mu\Omega\cdot\text{cm}$ **Post treatments**Post-Processing Hot & Cold working, Aging,  
Hardening

Anodizing compatibility Suitable

**Common applications**

Architectural products

Door and windows frames

Pipe and tubes for irrigation systems

Electrical components

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