



Product Information

Aluminium alloy 6063 is a medium strength alloy and is also referred to as an architectural alloy.

It generally has a good surface finish and high corrosion resistance.

Alloy 6063 is readily suited to welding, can be easily anodised and is most common in T6 temper. T4 temper is very good for forming.

Typical Applications

- Window frames
- Door frames
- Shopfitting
- Architectural applications
- Extrusions

Available Forms

- Extrusions
- Tube
- Rod
- Bar

Aluminium Alloy 6063A

Aluminium Alloy 6063A is a variation of 6063 with the same surface finish however it has greater strength.

6063A is commonly used in road transport and rail transport applications.

Temper Types

O	Soft
T4	Solution heat treated and naturally aged to a substantially stable condition
T6	Solution heat treated and artificially aged

Aluminium Alloy

6063 T6



MG METALS

Chemical Composition

	Mn	Fe	Mg	Si	Cu	Zn	Ti	Cr	Al
Min.	–	–	0.45	0.20	–	–	–	–	Bal
Max.	0.10	0.35	0.90	0.60	0.10	0.10	0.10	0.10	Bal

Typical Physical and Mechanical Properties	Typical Values
Density	2.70 g/cm ³
Melting point	600°c
Modulus of elasticity	69.5 GPa
Thermal conductivity	200 W/m.k
Tensile strength	215 MPa Min
Proof stress	170 MPa Min
Hardness Brinell	75 HB

Weldability

Aluminium alloy 6063 is suitable for all conventional welding methods.

Welding wire should generally be alloy 5183 or alloy 4043.