

General characteristics

>> Alloy 6060 <<

Aluminium -Magnesium-Silicon alloy, for general use, characterised by excellent extrudability, that allows the production of sections even of notable complexity and with subtle walls; average resistance; good resistance to corrosion.

It is' used under the form of tubes, round , flat and drawing sections

It is' available in stock in state T6; other states are supplied on demand.

Minimal mechanical characteristics at ambient temperature

Extrusions (bars - tubes - sections)

State	Rm (Nmm ²)	Rp0.2 (Nmm ²)	A % su 50 mm	Hardness
0	80	40	20	28
T 1	130	50	16	37
T 4	170	120	22	47
T 5	205	165	12	55
T 6	230	230	12	72

Physical characteristics

Density: 2,70 g/cm³ a 20 °C

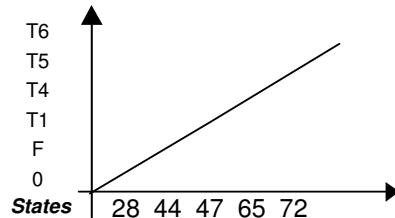
Thermal conductivity at 20 °C: 175 W/m °C (state T6)

Modulus of elasticity: 66000 N/mm²

Fusion temperature : 615-655

Thermal dilatation coefficient : 23.40

Hardnesses expressed in HB



Technological characteristics:

Workability at utensil machines : mediocre

Formability: low in state T6; good in state 0

Weldability: good (TIG – MIG) Fusion

Anodisation behaviour : very good

Resistance to corrosion : excellent

Typical uses

Structural details with medium resistance requirements and high corrosion requirements; profiles with complex section; architectural details, tubing for treatment and irrigation

Correspondence between international designations Alloy of the family

France	Germany	Italy	USA	Great Britain
6060	AlMgSi0.5	9006/1 ex 3569	6060	6063

Al - Mg - Si

Chemical composition of alloy 6060 in %

<u>Cu</u>	<u>Fe</u>	<u>Mn</u>	<u>Mg</u>	<u>Si</u>	<u>Zn</u>	<u>Cr</u>	<u>Ti</u>	<u>Pb</u>
0.10	0.10 - 0.30	0.10	0.35 – 0.6	0.30 – 0.6	0.15	0.05	0.1	