

Aluminium Alloy 6060 (EN AW 6060 AlMgSi) According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Aluminium-magnesium-silicium alloy.
- It is principally used in building, transportation and furniture where high mechanical characteristics are not requested.
- Excellent for any kind of anodizing.

		THICKNESS				
		≤ 25	≤ 5	5 ≤ 25	≤ 5	5 ≤ 25
		T4	T5	T5	T6	T6
Physical Properties						
Mechanical Properties						
Ultimate tensile strenght Rm[N/mm ²]	minimal	120	160	140	190	170
Yield strenght Rp 0,2	minimal	60	120	100	150	140
Elongation A _s	minimal	16	8	8	8	8
Hardness Brinell HB (information only)	minimal	50	60	60	70	70
Physical properties						
Density [kg/dm ³]		2,70	2,70	2,70	2,70	2,70
Module of elasticity [Gpa]		69	69	69	69	69
Electrical conductivity at 20 °C [m/Ω-mm ²]		33	33	33	33	33
Coefficient of thermal expansion [10 ⁻⁶ /K]		23,2	23,2	23,2	23,2	23,2
Thermal conductivity [w/m.K]		201	201	201	201	201
Melting point range °C		615 ÷ 655	615 ÷ 655	615 ÷ 655	615 ÷ 655	615 ÷ 655
Processing Characteristics						
Machinability		++	++	++	++	+++
Dimensional Stability		+++	+++	+++	+++	+++
Erodability		++	++	++	++	+++
Weldability		++++	++++	++++	++++	++++
Polishability		+++	+++	++++	+++	++++
Anodizing Decorative		+++++	+++++	+++++	+++++	+++++
Anodizing Hard		+++++	+++++	+++++	+++++	+++++
Corrosion resistance (weather)		+++++	+++++	+++++	+++++	+++++
Corrosion resistance (seawather)		++++	++++	++++	++++	++++

Legend - Processing Characteristics

Ottimo +++++ Buono ++++ Sufficiente +++ Mediocre ++ Insufficiente + Sconsigliabile -

COMPOSIZIONE CHIMICA

DENOMINAZIONE	Si	Fe	Mn	Mg	Cu	Zn	Cr	Ti	Ni	Pb	Bi	Sn	IMPURITÀ	ALLUMINIO
6060	0,30-0,60	0,10-0,30	0,10	0,35-0,60	0,10	0,15	0,05	0,10					0,05	0,15 remainder