

## ALLOY EN AW-AIMgSi

6060

Is an alloy with excellent extrudability and an average hardness.

Lends itself well to being welded, and has a good formability.

It does not present problems of finishing.

It's therefore perfect for decorative applications, door and window frame

CHEMICAL COMPOSITION PERCENTAGE									
Mg	Si	Fe	Ti	Cu	Cr	Mn	Zn	Others each - total	Al
0.35-0.60	0.30-0.60	0.10-0.30	0.10	0.10	0.05	0.10	0.15	0.05-0.15	Reminder

Mechanical Properties								
BAR			Tensile strength		Yield strength		Elongation	
temper designation	Dimension mm		R <sub>m</sub> MPA		R <sub>p0.2</sub>		A %	A <sub>50 mm</sub> %
	D <sup>1)</sup>	S <sup>2)</sup>	min.	max.	min.	max.	min.	min.
T4 <sup>4)</sup>	≤150	≤150	120	-	60	-	16	14
T5	≤150	≤150	160	-	120	-	8	6
T6 <sup>4)</sup>	≤150	≤150	190	-	150	-	8	6

TUBE								
temper designation	Dimension mm		R <sub>m</sub> MPA		R <sub>p0.2</sub>		A %	A <sub>50 mm</sub> %
	e <sup>3)</sup>		min.	max.	min.	max.	min.	min.
T4 <sup>4)</sup>	≤15		120	-	60	-	16	14
T5	≤15		160	-	120	-	8	6
T6 <sup>4)</sup>	≤15		190	-	150	-	8	6

PROFILE <sup>5)</sup>								
temper designation	Dimension mm		R <sub>m</sub> MPA		R <sub>p0.2</sub>		A %	A <sub>50 mm</sub> %
	e <sup>3)</sup>		min.	max.	min.	max.	min.	min.
T4 <sup>4)</sup>	≤25		120	-	60	-	16	14
T5	≤5		160	-	120	-	8	6
	5 < e ≤25		140	-	100	-	8	6
T6 <sup>4)</sup>	≤3		190	-	150	-	8	6
	3 < e ≤25		170	-	140	-	8	6

Physical properties			
Density	2,7 Kg/dm <sup>3</sup>	Specific heat capacity (0-100 °C)	0.92 J / (g x °K)
Elastic modulus	66000 N/mm <sup>2</sup>	Thermal expansion (20-100°C)	23 x 10 <sup>-6</sup> x K <sup>-1</sup>
Bulk modulus	26500 N/mm <sup>2</sup>	Thermal conduct. (20°C (T6))	1.75 W / (cm x °K)
Melting point	605 °C	Resistivity (20°C (T6))	3.25 μ Ω x cm

1) D = Diameter of the round bars

2) S = Width of square and hexagonal bars

3) e = thicknesses

4) May be obtained by tempering in extrusion press

5) The minimum value for the entire section