

Data sheet

EN AW - 6060 based on DIN EN 573

AlMgSi

Chemical composition: (ref.values/mass %)

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	other elements
0,30 – 0,6	0,10 – 0,3	0,10	0,10	0,35 – 0,6	0,05	0,15	0,10	single 0,05; total zus. 0,15

Mechanical properties: (ref.values DIN EN 586-2)

Cross-sectional dimension in mm ²	Temper (DIN EN 515)	Yield strength R_{p 0,2} (MPa)	Tensile strength R_m (MPa)	Elongation at break A (%)	Hardness HBW 2,5/62,5 Guide value	Fatigue strength in MPa ³
≤ 100	T 6	150	190	6	65	80

These are the minimum values according to the standard.

EN AW – 6005A based on DIN EN 573

AlSiMg(A)

Chemical composition: (ref.values/mass %)

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	other elements
0,5 – 0,9	0,35	0,30	0,50	0,40 – 0,7	0,3	0,20	0,10	single 0,05; total 0,15

Remark: Mn+Cr = 0,12 – 0,50

Mechanical properties: (ref.values DIN EN 586-2)

Cross-sectional dimension in mm ²	Temper (DIN EN 515)	Yield strength R_{p 0,2} (MPa)	Tensile strength R_m (MPa)	Elongation at break A (%)	Hardness HBW 2,5/62,5 Guide value	Fatigue strength in MPa ³
≤ 100	T 6	225	270	8	75	95

These are the minimum values according to the standard.

The following information applies to the above alloys

- Additional features:**

Weldability: **Corrosion resistance**

Gas: 3 Seawater: 2
TIG: 2 Weather: 1
MIG: 2

- Delivery forms:**

Die forging or open die forging.

- Special material properties:**

Cold and hot hardenable alloy with good corrosion resistance. Good weldability.

- Application:**

Mechanical engineering, industrial construction, medical technology and optical industry.
Suitable for decorative surfaces.

Notes:

- Cross-sectional dimensions: For larger cross-sections as specified above, the mechanical properties are basically to be determined per each component.
- Source specifications for flexural fatigue strength (www.alu-schlüssel.de).
- Corrosion+welding: Aluminium material data sheet. (evaluation scale: 1= excellent; 2= good; 3=acceptable; 4=inadequate; 5=not recommended; 6= unsuitable)
- All standards in the currently valid version.