

Data sheet

EN AW - 7075 based on DIN EN 573

AlZn5,5MgCu

Chemical composition: (ref.values/mass %)

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	other elements
0,40	0,50	1,20 -2,0	0,30	2,10 – 2,90	0,18 - 0,28	5,10 - 6,10	0,20	single 0,05; total 0,15

Remark: Zr + Ti max. 0,25 by agreement

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

Cross-sectional dimension in mm ²	Temper (DIN EN 515)	Yield strength		Tensile strength		Elongation at break		Hardness HBW 2,5/62,5 Guide value	Fatigue strength in MPa ³
		R _{p 0,2} (MPA)		R _m (MPA)		A (%)			
		T ¹⁾	L ²⁾	T	L	T	L		
≤ 100	T 6	335	440	420	510	3	7	135	130

T¹⁾ Transverse direction to the grain flow / L²⁾ Parallel to the grain flow // These are the minimum values according to the standard.

The following information applies to the above alloy

- Additional features:**

Weldability: Corrosion resistance

Gas: 6 Seawater: 4 - 5

TIG: 6 Weather: 4 - 5

MIG: 6

- Delivery forms:**

Die forging or open die forging.

- Special material properties:**

Hot hardenable alloy with highest strength characteristics.

Very high dynamic strength. (electrical conductivity ≥ 23/MS/m).

- Application:**

Aerospace, rescue systems and medical technology.

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.