

Data sheet

EN AW - 7022 based on DIN EN 573

AlZn5Mg3Cu

Chemical composition (ref.values/mass %)

Si	Fe	Cu	Mn	Mg	Cr	Zn	other elements
0,50	0,50	0,50 – 1,0	0,10 – 0,40	2,60 – 3,70	0,10-0,30	4,3 – 5,2	single 0,05; total 0,15

Remark: Zr+Ti 0,20

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

Cross-sectional dimension in mm ²	Temper (DIN EN 515)	Yield Strength <i>R_{p 0,2}</i> (MPa)	Tensile Strength <i>R_m</i> (MPa)	Elongation at break <i>A</i> (%)	Hardness HBW 2,5/62,5 Guide value
≤ 80	T 6	420	490	5	130

These are the minimum values according to the standard.

The following information applies to the above alloy

- Additional features**

Weldability	Corrosion resistance
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Gas: 6	Seawater: 5
TIG: 6	Weather: 4
MIG: 6	

- Delivery forms:**

Die forging or open die forging.

- Special material properties:**

High static and dynamic strength.

- Application:**

Mechanical engineering and oil-hydraulic systems.

Notes:

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