

EN AW-7022



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

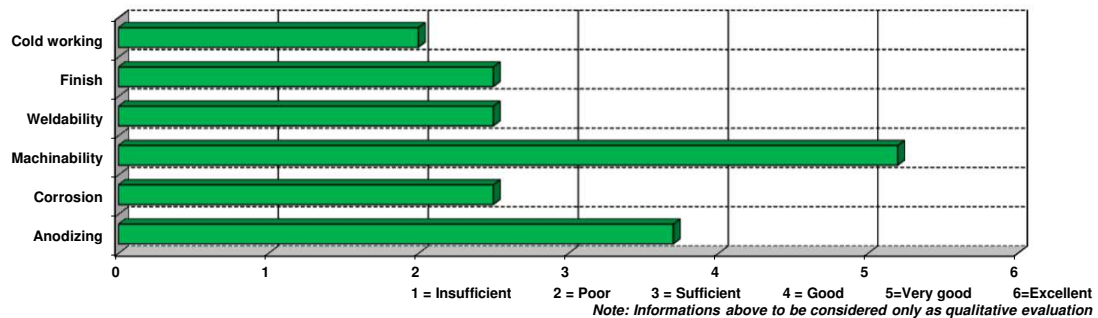
Application:

Zn-Mg aluminium alloy mainly suitable for Aircraft and military highly stressed structural components.
Rolling stock for machine parts and tools (for rubber and plastics).
Ski poles, tennis rackets, screws and bolts, nuts. Rivets. Nuclear applications.

Characteristic properties:

- Heat treatable very high strength alloy with a strength slightly lower than 7075.
- Very high fatigue strength. Joining preferably by rivets, adhesives or screws.
- Corrosion protection is recommended also in outdoor atmosphere.

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,50 max.
Fe %	0,50 max
Cu %	0,50 - 1,0
Mn %	0,10 - 0,40
Mg %	2,6 - 3,7
Cr %	0,10 - 0,30
Zn %	4,3 - 5,2
Others, each %	0,05
Others, total %	0,15
Al %	Remaining
<i>max.Zr + Ti = 0,20</i>	

Typical mechanical properties in accordance with EN 755-2								
Temper	Product	Dim [mm]	Rm [MPa]		Rp _{0.2} [MPa]		A%	HB Typical
			min	max	min	max		
T6, T6510, T6511	Rod/ Bar	≤ 80	490	-	420	-	7	133
		80 < D ≤ 200	470	-	400	-	7	
	Tube	t ≤ 30	490	-	420	-	7	133
	Profile	t ≤ 30	490	-	420	-	7	133

Other conditions may be available and agreed upon customer request.

Physical properties		
Density	$\frac{\text{kg}}{\text{dm}^3}$	2,81
Modulus	Mpa	73000
Heat capacity (at 20°)	$\frac{\text{J}}{\text{kg} \cdot \text{K}}$	870
Coeff. of thermal exp. (at 20°)	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	22,1
Conductivity (at 20°)	$\frac{\text{MS}}{\text{m}}$	23,6

Note: Aluminium Bozen does not guarantee or accept any liability for the accuracy of the data provided above, even though is making every effort to ensure their consistency.

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