

EN-AW-2017A



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

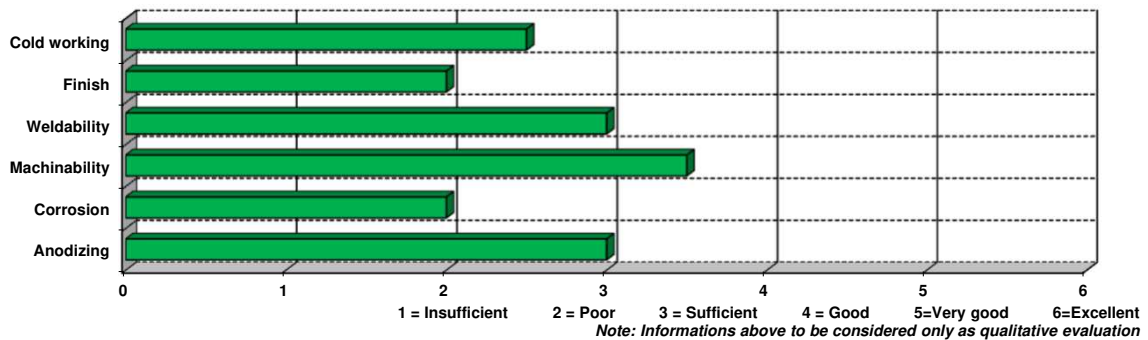
Alloy description

Al-Cu based aluminum alloy mainly suitable for high strength structural components, forgings for trucks and machinery, weapons. Poor resistance to atmospheric corrosion, therefore hard anodizing or similar protection is generally recommended.

Main features:

- high mechanical strength
- good machinability

Alloy technological properties - T4 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,20 - 0,8
Fe %	0,7 max
Cu %	3,5 - 4,5
Mn %	0,40 - 1,0
Mg %	0,40 - 1,0
Cr %	0,10 max
Zn %	0,25 max
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

Zr + Ti = 0,25 max only upon customer & supplier agreement

Typical mechanical properties in accordance with EN 755-2							
Temper	Product	Rm [MPa]		Rp _{0,2} [MPa]		A ₅ %	HB Typical
		min	max	min	max		
T4 T4510 T4511	≤ 25	380	-	260	-	12	105
	25 < φ ≤ 75	400	-	270	-	10	105
	75 < φ ≤ 150	390	-	260	-	9	105
	150 < φ ≤ 200	370	-	240	-	8	105
	200 < φ ≤ 250	360	-	220	-	7	105

Physical properties		
Density	kg/dm ³	2,79
Modulus	Mpa	72500
Heat capacity (at 20°)	W/m ² K	134
Coeff. of thermal exp. (at 20°)	x 10 ⁻⁶ /°C	22,9
Conductivity (at 20°)	MS/m	19,7

Other conditions may be available and agreed upon Customer request.
The values given above represent typical figures and may be different depending on product dimension.

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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