

EN AW-2030



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

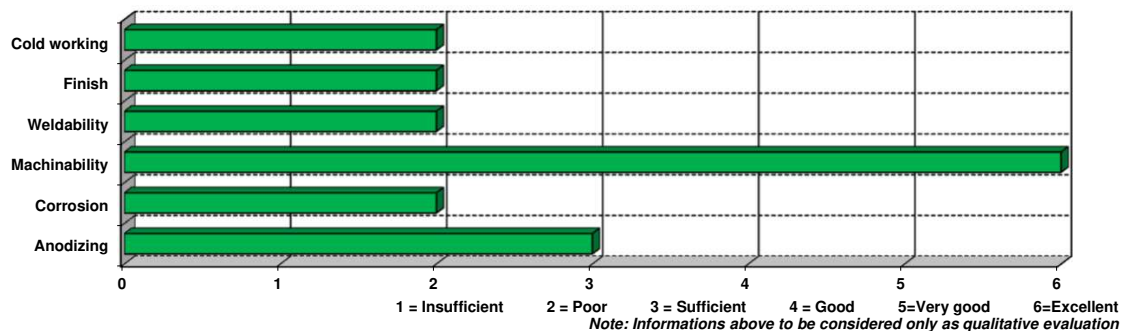
Alloy description

Al-Cu based aluminum alloy mainly suitable for products/ parts requiring high machinability, as well as very good fatigue performances. Poor resistance to atmospheric corrosion, therefore hard anodizing or similar protection is generally recommended.

Main features:

- medium/ high mechanical properties
- high machinability
- high fatigue performances

Alloy technological properties - T4 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,80 max
Fe %	0,70 max
Cu %	3,30 - 4,50
Mn %	0,20 - 1,00
Mg %	0,50 - 1,30
Cr %	0,10 max
Ti %	0,20 max
Zn %	0,50 max
Bi %	0,20 max
Pb %	0,80 - 1,50
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

Typical mechanical properties in accordance with EN 755-2								
Temper	Product	Dim [mm]	Rm [MPa]		Rp _{0,2} [MPa]		A ₅ %	HB Typical
			min	max	min	max		
T4, T4510, T4511	Rod/Bar	≤ 80	370	-	250	-	8	115
		80 < D ≤ 200	340	-	220	-	8	115
		200 < D ≤ 250	330	-	210	-	7	115
	Profile	t ≤ 30	370	-	250	-	8	115

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.

Physical properties		
Density	kg/dm ³	2,825
Modulus	Mpa	72500
Heat capacity (at 20°)	W/m ² K	134
Coeff. of thermal exp.	x 10 ⁻⁶ /°C	23
Conductivity (at 20°)	MS/m	19,8

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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