

EN AW-6082



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

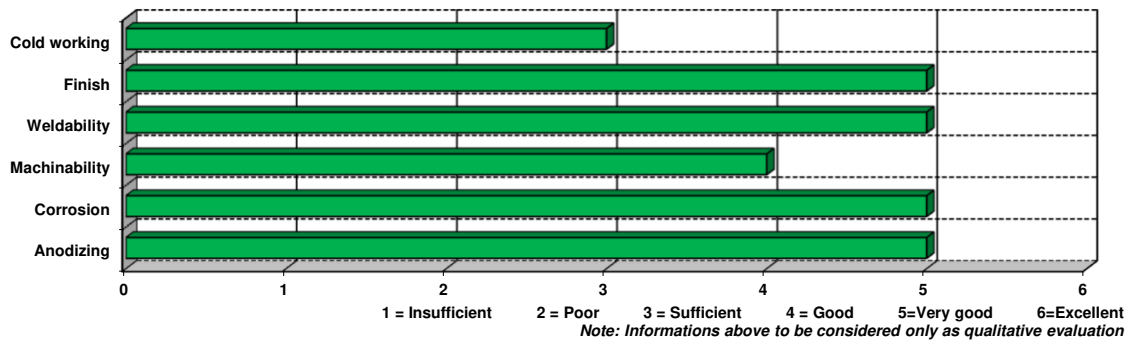
Alloy description

Mg-Si-Mn aluminium alloy mainly suitable for those structural components, tubes, bars and "forging stock" where mechanical strength and good corrosion resistance, as well as finishing are required to match.

Main features:

- medium/high mechanical properties
- good machinability
- good corrosion resistance

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3		typical mechanical properties						Physical properties				
Si %	0,7 - 1,30	Temper	Product	Rm [MPa]		Rp _{0,2} [MPa]		A ₅ %	HB Typical	Density	kg/dm ³	2,73
Fe %	0,50 max			min	max	min	max			Modulus	Mpa	69000
Cu %	0,10 max	T4	Rod/Bar	205	-	110	-	14	70	Heat capacity (at 20°)	W/m ² K	175
Mn %	0,40 - 1,00		Tube	205	-	110	-	14	70			
Mg %	0,60 - 1,20		Profile	205	-	110	-	14	70			
Cr %	0,25 max	T6	Rod/Bar ⁽¹⁾	310	-	260	-	8	95	Coeff. of thermal exp.	x 10 ⁻⁶ /°C	23,2
Ti %	0,10 max		Tube ⁽²⁾	310	-	260	-	8	95			
Zn %	0,20 max		Profile ⁽³⁾	310	-	260	-	8	95			
Others, each %	0,05	(1): applicable for 20<D<=150 mm and/or 20<S<=150 mm, where D = diameter of round bar and S = width across flats for square and hexagonal bar, thickness of rectangular bar. (2): applicable for 5<t <= 25 mm, where t = wall thickness. (3): applicable for 5<t <= 25 mm, where t = wall thickness and for both hollow and open profiles. 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.										
Others, total %	0,15	Conductivity (at 20°) MS/m 25,9										
Al %	Remaining											

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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