EN AW-6063

aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

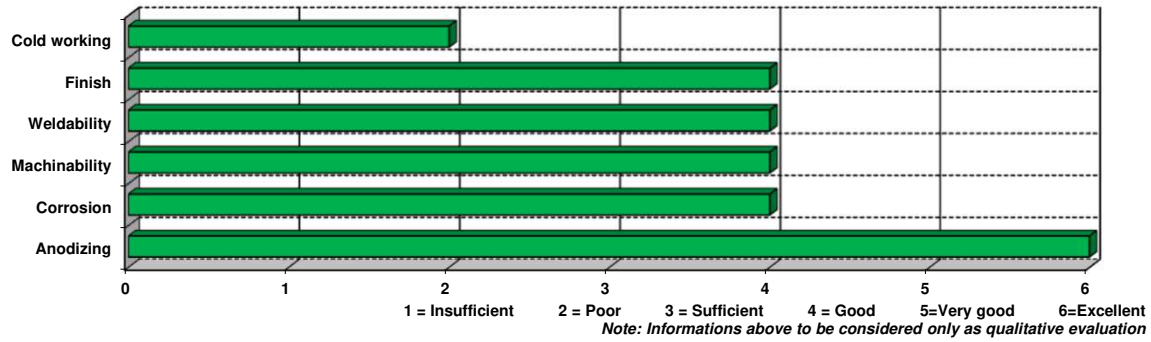
According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

Alloy description

This alloy is suitable for applications in the field of building constructions for doors and windows, in furniture interior designing, prefabricated walls and decorations. It also has numerous uses in road and maritime transport, mechanical constructions, chemical industry and conduction rods and tubes in the power plants.

Main features:
- low/medium properties
- good anodizing
- good corrosion resistance

Alloy technological properties - T6 Temper



Note: Informations above to be considered only as qualitative evaluation

Chemical composition in accordance with EN 573-3

Si %	0,20 - 0,6
Fe %	0,35 max
Cu %	0,10 max
Mn %	0,10 max
Mg %	0,45 - 0,9
Cr %	0,10 max
Ti %	0,10 max
Zn %	0,10 max
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

typical mechanical properties according to EN 755-2

Temper	Product	Rm [MPa]		$Rp_{0,2}$ [MPa]		A_5%	HB Typical
		min	max	min	max		
T4	Rod/Bar (1)	120	-	65	-	12	50
	Tube (2)						
	Profile (3)(4)						
T6	Rod/Bar (1)	195	-	160	-	10	75
	Tube (2)	215	-	170	-	10	75
	Profile (3)	215	-	170	-	8	75
	Profile (4)	195	-	160	-	8	75

(1): applicable for D<=200 mm and/or S<=200 mm, where D = diameter of round bar and S = width across flats for square and hexagonal bar, thickness of rectangular bar.

(2): applicable for t <= 25 mm, where t = wall thickness.

(3): applicable for t <= 10 mm, where t = wall thickness and for both hollow and open profiles.

(4): applicable for 10< 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.

Physical properties

Density	kg / dm^3	2,7
Modulus	Mpa	66000
Heat capacity (at 20°)	W / m*K	175
Coeff. of thermal exp.	x 10^{-6} / °C	23
Conductivity (at 20°)	MS / m	25,9

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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