

EN AW-6056



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

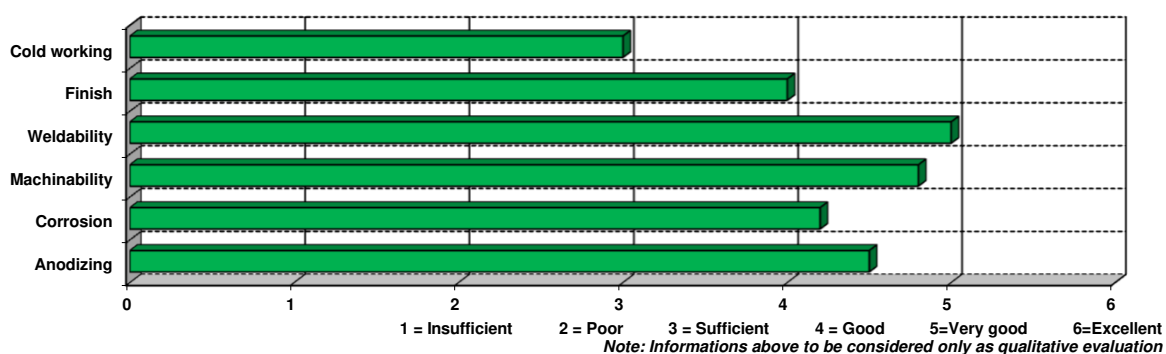
Alloy description

Alloy mainly designed for general engineering applications matching and requiring strength, machinability, toughness and corrosion resistance along with good thermal conductivity. It is used especially in machinery, transport and industrial applications.

Main features:

- medium-high strength
- good machinability
- good corrosion resistance and weldability

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,7 - 1,3
Fe %	0,5 max
Cu %	0,50 - 1,1
Mn %	0,4 - 1,0
Mg %	0,6 - 1,2
Cr %	0,25 max
Ti %	(+)
Zn %	0,1 - 0,7
Zr %	(+)
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

(+) Zr + Ti = 0,20 max

Typical mechanical properties in accordance with EN 755-2								
Temper	Product	Dim. [mm]	Rm [MPa]		Rp _{0,2} [MPa]		A ₅ %	HB (Typ.)
			min	max	min	max		
T6, T6511	Rod/Bar	≤ 80	380	-	360	-	10	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	2,72
Modulus	MPa	69640
Heat capacity (at 20°)	W/m ² *K	164
Coeff. of thermal exp. (at 20°)	x 10 ⁻⁶ °C	23,4
Conductivity (at 20°)	MS/m	24,9

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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