

EN AW-7012



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

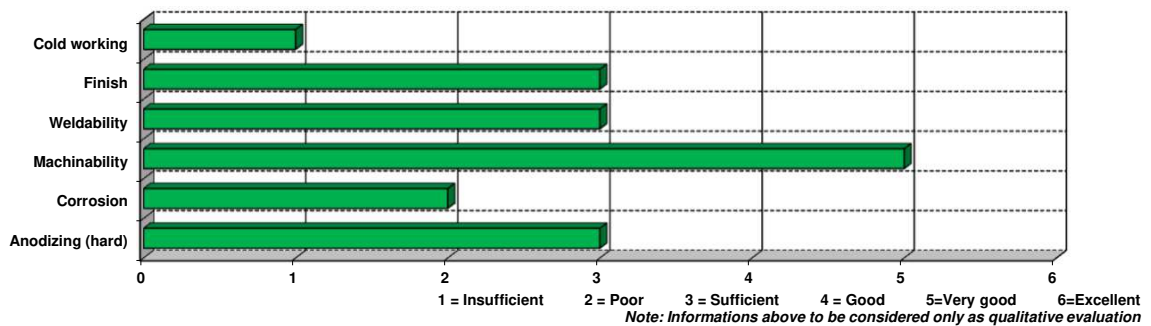
Alloy description

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

Main features:

- high mechanical strength
- good machinability

Alloy technological properties - T6 Temper



2014 Chemical composition according to EN 573-3	
Si %	0,15 max
Fe %	0,25 max
Cu %	0,8 - 1,2
Mn %	0,08 - 0,15
Mg %	1,8 - 2,2
Cr %	0,04 max
Ti %	0,02 - 0,08
Zn %	5,8 - 6,5
Zr %	0,10 - 0,18
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

Typical mechanical properties								
Temper	Product	Dim [mm]	Rm [MPa]		Rp _{0,2} [MPa]		A ₅ %	HB Typical
			min	max	min	max		
T6	Rod/Bar	≤ 50	560	-	520	-	6,5	150

Physical properties		
Density	$\frac{\text{kg}}{\text{dm}^3}$	2,8
Modulus	Mpa	71100
Heat capacity (at 20°)	$\frac{\text{W}}{\text{m}^2\text{K}}$	117
Coeff. of thermal exp.	$\frac{1}{^\circ\text{C}} \times 10^{-6}$	23,2

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.

Aluminium Bozen
Via Toni Ebner, 24 - 39100 Bolzano - ITALY