

EN AW-2014 EN AW-2014A



ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

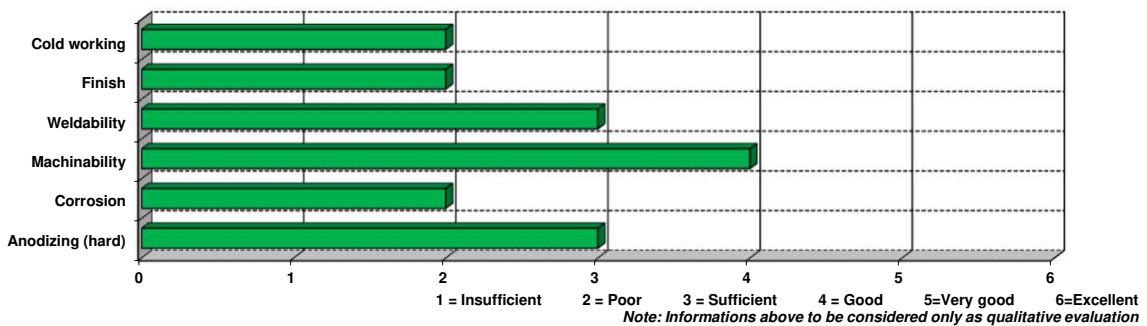
Alloy description

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

Main features:

- high mechanical strength (higher than EN AW-2011 and EN AW-2017A)
- good machinability
- high fatigue performances

Alloy technological properties - T6 Temper



2014 Chemical composition according to EN 573-3	
Si %	0,50 - 1,20
Fe %	0,70 max
Cu %	3,90 - 5,00
Mn %	0,40 - 1,20
Mg %	0,20 - 0,80
Cr %	0,10 max
Ti %	0,15 max
Zn %	0,25 max
%Zr+%Ti	0,20 max
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		
T6	Profile	≤ 25	415	-	370	-	7	140
		25 < t ≤ 75	460	-	415	-	7	140
T6	Rod/bar	≤ 25	415	-	370	-	6	140
		25 < D ≤ 75	460	-	415	-	7	140
		75 < D ≤ 150	465	-	420	-	7	140
		150 < D ≤ 200	430	-	350	-	6	140
		200 < D ≤ 250	420	-	320	-	5	140

Physical properties		
Density	kg/dm ³	2,8
Modulus	Mpa	73000
Heat capacity (at 20°)	W/m ² K	155
Coeff. of thermal exp. (at 20°)	x 10 ⁻⁶ °C	22,7
Conductivity (at 20°)	MS/m	23,2

2014A Chemical composition according to EN 573-3	
Si %	0,50 - 0,9
Fe %	0,50 max
Cu %	3,90 - 5,00
Mn %	0,40 - 1,20
Mg %	0,20 - 0,80
Cr %	0,10 max
Ni%	0,10 max
Ti %	0,15 max
Zn %	0,25 max
%Zr+%Ti	0,20 max
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

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.

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