EN AW-2024

aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

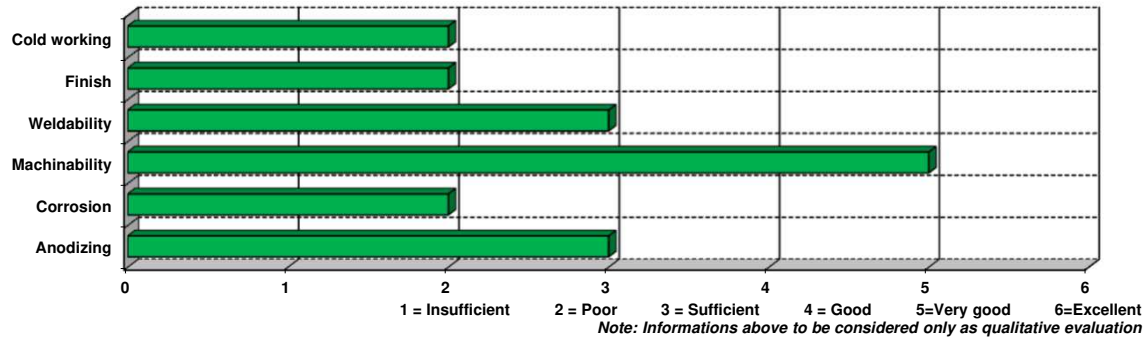
According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

Alloy description

Al-Cu based aluminum alloy mainly suitable for high strength fabricated and/ or machined components, as well as screw machine products and rivets. Poor resistance to atmospheric corrosion, cladding or similar protection is generally recommended.

Main features:
- high mechanical strength
- very good machinability
- high fatigue performance

Alloy technological properties - T3 Temper



Note: Informations above to be considered only as qualitative evaluation

Chemical composition in accordance with EN 573-3	
Si %	0,50 max
Fe %	0,50 max
Cu %	3,80 - 4,90
Mn %	0,30 - 0,90
Mg %	1,20 - 1,80
Cr %	0,10 max
Ti %	0,15 max
Zn %	0,25 max
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

Zr + Ti = 0,20 max only upon customer & supplier agreement

typical mechanical properties							
Temper	Product	Rm [MPa]		$Rp_{0,2}$ [MPa]		A_5%	HB Typical
		min	max	min	max		
T3 T3510 T3511	Rod/ Bar	420	-	290	-	8	120
	Profile 15 < t ≤ 50	420	-	290	-	8	120

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	2,79
Modulus	Mpa	73000
Heat capacity (at 20°)	W / m*K	121
Coeff. of thermal exp.	x 10^{-6} / °C	23,1
Conductivity (at 20°)	MS / m	17,4

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

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