EN AW-2007

aluminium bozen

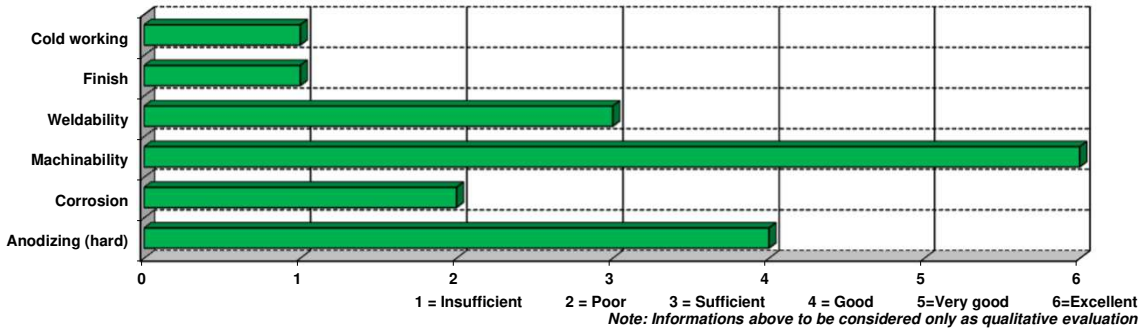
ALUMINIUM BOZEN - Extrusion Aluminum Alloys

Alloy description

Al-Cu system based alloy mainly suitable for parts requiring high machinability (i.e.: machined products, screws, bolts, fittings), as well as very good fatigue performances. Poor resistance to atmospheric corrosion, therefore hard anodizing or similar protection is generally recommended.

Main features:
- medium/ high mechanical properties
- excellent machinability
- high fatigue performances

Alloy technological properties - T4 Temper



Note: Informations above to be considered only as qualitative evaluation

Chemical composition in accordance with EN 573-3	
Si %	0,80 max
Fe %	0,80 max
Cu %	3,30 - 4,60
Mn %	0,50 - 1,00
Mg %	0,40 - 1,80
Cr %	0,10 max
Ti %	0,20 max
Zn %	0,80 max
Ni %	0,20 max
Bi %	0,20 max
Pb %	0,80 - 1,50
Sn %	0,20 max
Others, each %	0,10
Others, total %	0,30
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		
T4, T4510, T4511	Rod/Bar	≤ 80	370	-	250	-	8	95
		80<D≤ 200	340	-	220	-	8	
		200<D≤ 250	330	-	210	-	7	
	Profile	≤ 30	370	-	250	-	8	95

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	2,825
Modulus	Mpa	72500
Heat capacity (at 20°)	W/m*K	130
Coeff. of thermal exp.	x 10^{-6}/°C	23
Conductivity (at 20°)	MS/m	19,7

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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