EN AW-7003

aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

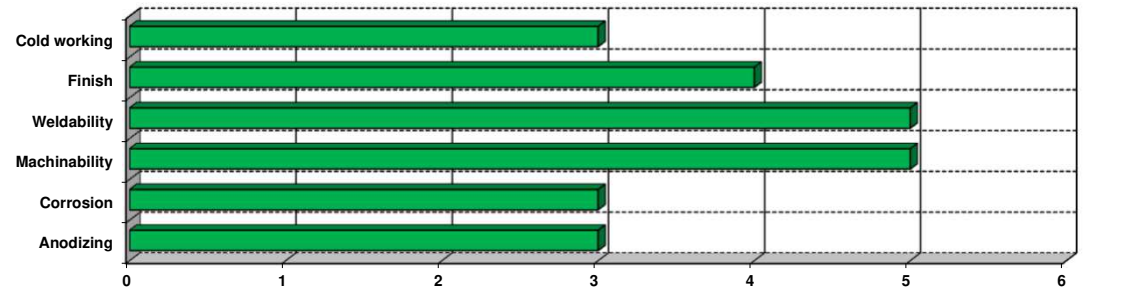
According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

Alloy description

Zn-Mg aluminium alloy mainly suitable for strength components/ parts and welded engineering structural components. It is widely used for military apllications, railway coach bodies, building construction, pylons, containers. Precautions must be taken against stress corrosion cracking and exfoliation. Not suitable to ectrude complex shapes/ sections.

Main features:
- high mechanical properties
- good fatigue strength
- high strength in welded structures

Alloy technological properties - T6 Temper



Note: Informations above to be considered only as qualitative evaluation

Chemical composition in accordance with EN 573-3	
Si %	0,30 max.
Fe %	0,35 max
Cu %	0,20 max
Mn %	0,30 max.
Mg %	0,50-1,0
Cr %	0,20 max
Zr %	0,05-0,25
Zn %	5,0-6,5
Others, each %	0,05
Others, total %	0,15
Al %	Remaining
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 Typical
			min	max	min	max		
T6	Rod/ Bar	≤ 50	350	-	290	-	10	110
		50<D≤ 150	340	-	290	-	10	110
	Tube	≤ 10	350	-	290	-	10	110
		10<t≤ 25	340		280		10	110
	Profile	≤ 10	350	-	290	-	10	110
		10<t≤ 25	340		280		10	110

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/dm³	2,77
Modulus	Mpa	70000
Heat capacity (at 20°)	W/m*K	150
Coeff. of thermal exp.	x 10⁻⁶/°C	23,1
Conductivity (at 20°)	MS/m	22

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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