EN AW-7020

aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

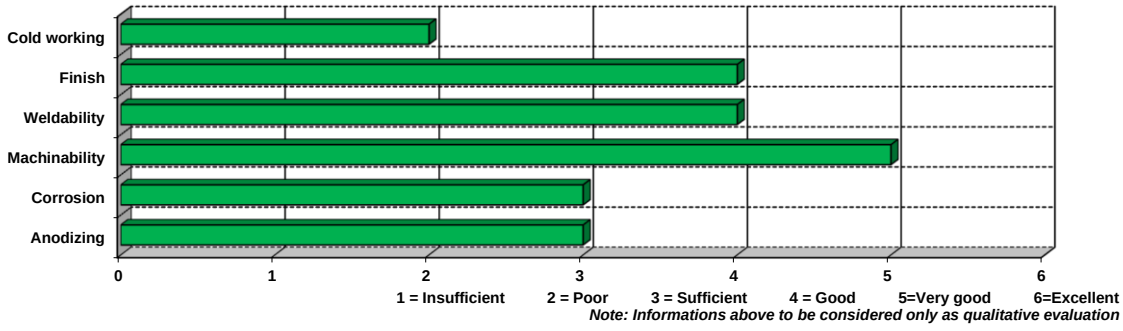
According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

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 extrude 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 %	0,35 max.
Fe %	0,40 max
Cu %	0,20 max
Mn %	0,05 - 0,50
Mg %	1,00 - 1,40
Cr %	0,10 - 0,35
Zr %	0,08 - 0,20
Zn %	4,00 - 5,00
Others, each %	0,05
Others, total %	0,15
Al %	Remaining
Zr + Ti = 0,08 - 0,25	

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≤ 200	340	-	275	-	10	110
	Tube	≤ 15	350	-	290	-	10	110
	Profile	≤ 40	350	-	290	-	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/dm^3	2,78
Modulus	Mpa	71000
Heat capacity (at 20°)	W/m*K	160
Coeff. of thermal exp.	x 10^{-6}/°C	23,3
Conductivity (at 20°)	MS/m	23

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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