

EN AW-5019



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

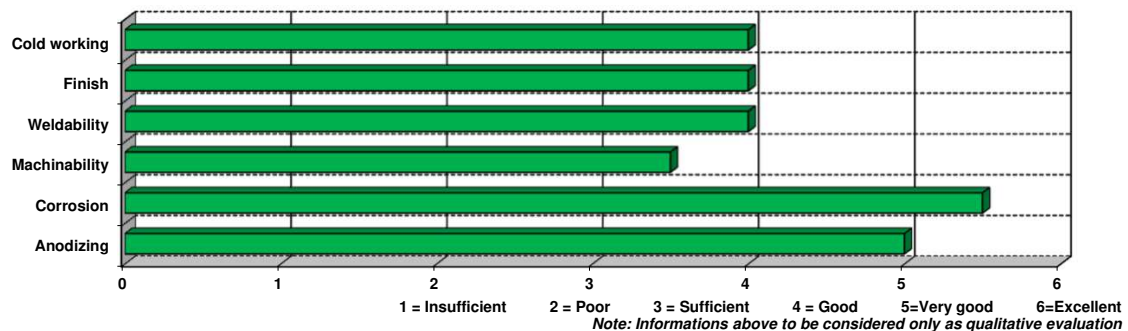
Alloy description

Al-Mg alloy mainly suitable for products where a very good corrosion resistance, especially in aggressive environment, is required, as well as good weldability performances. Typical applications/markets are: optics, marine and medical apparatus/equipments/furnitures.

Main features:

- suitable for anodizing (especially anodizing & protective type)
- very good weldability
- very good corrosion resistance, especially in aggressive environment

Alloy technological properties - Hx2 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,40 max
Fe %	0,50 max
Cu %	0,10 max
Mn %	0,10 - 0,6
Mg %	4,5 - 5,6
Cr %	0,20 max
Ti %	0,20 max
Zn %	0,20 max
Others, each %	0,05
Others, total %	0,15
Al %	Remaining
0,10-0,6 Mn+Cr	

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		
F, H112	Rod/Bar	≤ 200	250	-	110	-	14	65
	Profile	≤ 30						

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	2,64
Modulus	Mpa	71000
Heat capacity (at 20°)	W/m*K	117
Coeff. of thermal exp.	x 10 ⁻⁶ /°C	23,8
Conductivity (at 20°)	MS/m	16,5

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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