

EN AW-7075



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

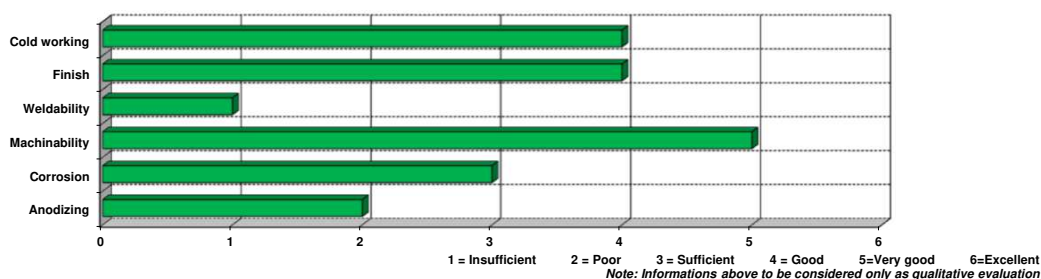
Alloy description

Zn-Mg-Cu aluminium alloy mainly suitable for strength components/ parts engineering structural components. It is widely used for military applications, railway coach bodies, building construction, pylons, containers, etc. Precautions must be taken against stress corrosion cracking and exfoliation (T73 Temper). Not suitable to extrude complex or porthole shapes/ sections.

Main features:

- high mechanical properties
- good fatigue strength

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3		Typical mechanical properties in accordance with EN 755-2						Physical properties					
Si %	0,4 max.	Temper	Product	Dim [mm]	Rm [MPa]		Rp _{0.2} [MPa]		A ₅ %	HB Typical	Density	kg/dm ³	2,81
Fe %	0,5 max.				min	max	min	max			Modulus	Mpa	72500
Cu %	1,2 - 2,0	T6	Rod/ Bar	≤ 25	540	-	480	-	7	150			
Mn %	0,3 max.			25<D≤ 100	560	-	500	-	7	150			
Mg %	2,1 - 2,9			100<D≤ 150	550	-	440	-	5	150	Coeff. of thermal exp.	x 10 ⁻⁶ °C	23,5
Cr %	0,18 - 0,28			150<D≤ 200	440	-	400	-	5	150			
Zn %	5,1 - 6,1	T73	Rod/ Bar	≤ 25	485	-	420	-	7	135	Conductivity	MS/m	19-23
Others, each %	0,05			25<D≤ 75	475	-	405	-	7	135			
Others, total %	0,15			75<D≤ 100	470	-	390	-	6	135			
				100<D≤ 150	440	-	360	-	6	135			

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.

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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