2030 AB
LEAD FREE

aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

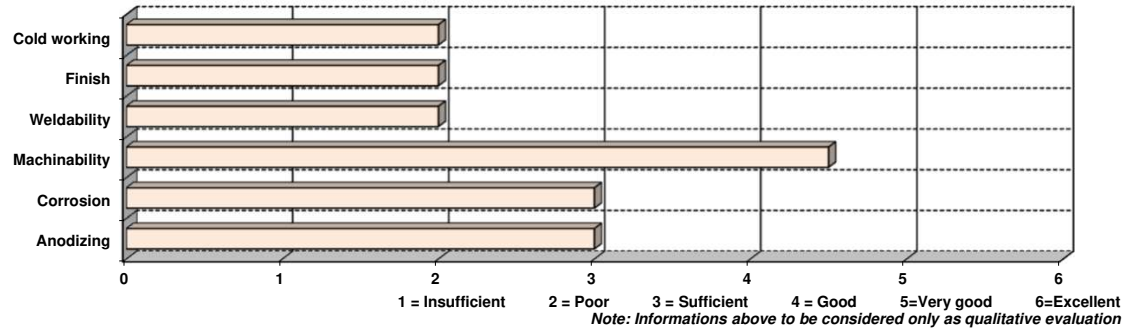
According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

Alloy description

Al-Cu based aluminum alloy mainly suitable for products/ parts requiring high machinability, 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
- high machinability
- high fatigue performances

Alloy technological properties - T4 Temper



Note: Informations above to be considered only as qualitative evaluation

2030 AB Chemical composition	
Si %	0,80 max
Fe %	0,70 max
Cu %	3,30 - 4,50
Mn %	0,20 - 1,00
Mg %	0,50 - 1,30
Cr %	0,10 max
Ti %	0,20 max
Zn %	0,50 max
Bi %	1,5 max
Pb %	0,05 max
Sn%	0,05 max
Others, each %	0,05 max
Al %	Remaining

Typical mechanical properties

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	115
		80<D ≤ 200	340	-	220	-	8	115
		200<D ≤ 250	330	-	210	-	7	115
	Profile	t ≤ 30	370	-	250	-	8	115

Physical properties

Density	kg / dm^3	2,825
Modulus	Mpa	72500
Heat capacity (at 20°)	W / m*K	134
Coeff. of thermal exp.	x 10^{-6} / °C	23
Conductivity (at 20°)	MS / m	19,8

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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