6026 AB
LEAD FREE

aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

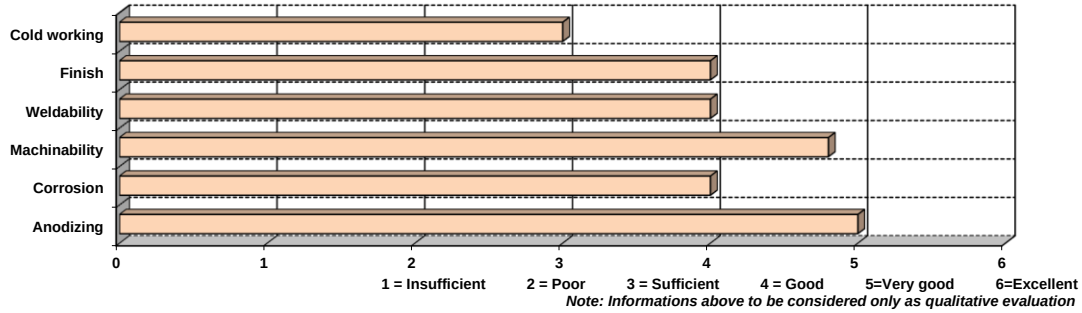
According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

Alloy description

Mg-Si-Bi-Sn aluminium alloy mainly suitable for those free machining and automotive components, electronic and electrical parts as well as "forging stock" products where mechanical strength and good corrosion resistance, as well as finishing are required to match.

Main features:
- medium/high mechanical properties
- very good machinability
- good corrosion resistance

Alloy technological properties - T6 Temper



Note: Informations above to be considered only as qualitative evaluation

6026 AB Chemical composition	
Si %	0,90 - 1,20
Fe %	0,40 max
Cu %	0,25 - 0,45
Mn %	0,30 - 0,50
Mg %	0,70 - 1,00
Cr %	0,10 max
Ti %	0,02 - 0,10
Zn %	0,15 max
Pb%	0,05 max
Bi%	0,60-0,80
Sn%	0,05 max
Others, each %	0,05 max
Others, total %	0,15 max

typical mechanical properties

Temper	Product	Dim mm	Rm [MPa] min	Rm [MPa] max	$Rp_{0,2}$ [MPa] min	$Rp_{0,2}$ [MPa] max	A%	HB Typical
T6,T6510 T6511	Rod/Bar	≤ 140	370	-	300	-	8	95
		140<D≤200	340	-	250	-	8	90
		200<D≤250	300	-	200	-	8	90
T6,T6510 T6511	Ext/tube	t ≤ 30	340	-	260	-	8	90
T6,T6510 T6511	Ext/ profile	t ≤ 40	340	-	260	-	8	90

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	2,72
Modulus	Mpa	69000
Heat capacity (at 20°)	W/m*K	172
Coeff. of thermal exp.	x 10^{-6}/°C	23,2
Conductivity (at 20°)	MS/m	25,7

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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