

EN AW-4032



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

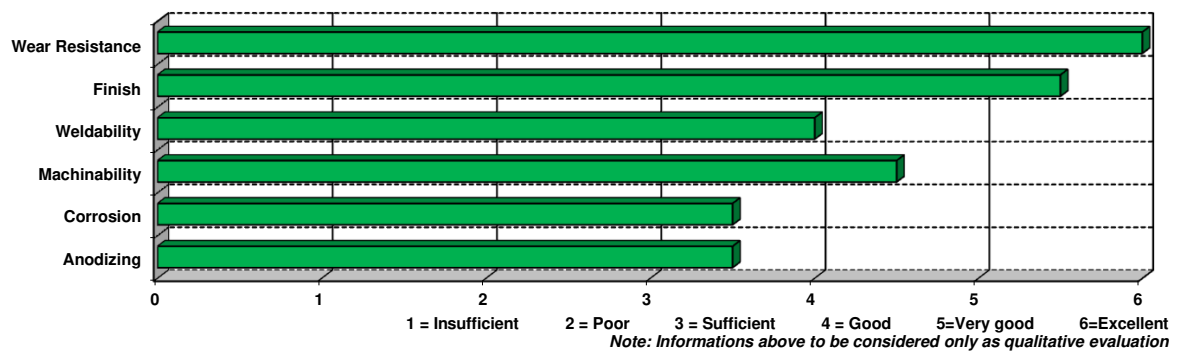
Alloy description

The high content of Silicon gives to the products a superior wear resistance and a low thermal expansion coefficient. It is recommended for products to be used at high temperature. It offers also high strength and excellent surface finishing. Typical applications are: forged pistons, cylinders and products for hydraulic applications.

Main features:

- excellent wear/abrasion resistance
- low thermal expansion coefficient

Alloy technological properties - T6/T62 Temper



Chemical composition in accordance with EN 573-3	
Si %	11,0 - 13,5
Fe %	1,0 max
Cu %	0,50 - 1,3
Mn %	-
Mg %	0,8 - 1,3
Cr %	0,10 max
Ti %	-
Ni %	0,50 - 1,3
Zn %	0,25 max
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

		Typical mechanical properties					
Temper	Product	Rm [MPa]		Rp _{0,2} [MPa]		A ₅ %	HB Typical
		min	max	min	max		
T6/T62	Rod/Bar	370	-	290	-	5	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	2,68
Modulus	Mpa	79000
Heat capacity (at 20°)	W/m ² K	154
Coeff. of thermal exp.	x 10 ⁻⁶ /°C	19,4
Conductivity (at 20°)	MS/m	20,7

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.

Aluminium Bozen
Via Toni Ebner, 24 - 39100 Bolzano - ITALY