## EN AW-6012



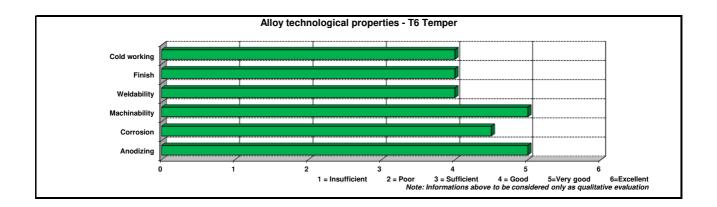
## **ALUMINIUM BOZEN - Extruded Aluminum Alloys**

## Alloy description

AIMgSiPb alloy specifically developed for machining applications and with Lead (Pb) content less than 1%. Being part of the 6000 alloys family, it also provides very good response to surface treatments/anodizing. The alloy is typically used for hydraulic valve blocks, brake components, as well as general engineering products where high machining performances are required.

## Main features:

- very good machinability
- good corrosion resistance
- very good anodizing response



Chemical composition in accordance with EN 573-3					
Si %	0,6 - 1,4				
Fe %	0,50 max				
Cu %	0,10 max				
Mn %	0,40 - 1,0				
Mg %	0,6 - 1,2				
Cr %	0,30 max				
Ti %	0,20 max				
Zn %	0,30 max				
Bi %	0,7 max				
Pb %	0,40 - 2,0				
Others, each %	0,05				
Others, total %	0,15				
Al %	Remaining				
70					

Typical mechanical properties in accordance with EN 755-2								
Temper	Product Dim [mm]	Rm [MPa]		Rp <sub>0,2</sub> [MPa]		A%	HB Typical	
		min	max	min	max			
T6 T6510 T6511	Rod/Bar	≤ 150	310	-	260	-	8	
	Rod/Bar	150 <d 200<="" td="" ≤=""><td>260</td><td>-</td><td>200</td><td>-</td><td>8</td><td>105</td></d>	260	-	200	-	8	105
	Tube	t ≤ 30	310	-	260	-	8	105
	Profile	t ≤ 30	310	-	260	-	8	105

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	2,7			
Modulus of elasticity	Мра	70.100			
Heat capacity	W	172			
(at 20°)	m*K				
Coeff. of thermal	x 10 <sup>-6</sup>	23,4			
exp.	°C				
Conductivity	MS	26,2			
(at 20°)	m				

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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