

Aluminum 6082-T6**Subcategory:** 6000 Series Aluminum Alloy; Aluminum Alloy; Metal; Nonferrous Metal**Close Analogs:****Composition Notes:**

Aluminum content reported is calculated as remainder.

Composition information provided by the Aluminum Association and is not for design.

Key Words: EU Numerical EN-AW-6082; EU Chemical AlSi1MgMn; AA6082; Sweden: SS-EN-AW-6082; Aluminium 6082-T6

Component	Wt. %		Component	Wt. %		Component	Wt. %		
Al	95.2 - 98.3		Mg	0.6 - 1.2		Si	0.7 - 1.3		
Cr	Max 0.25		Mn	0.4 - 1		Ti	Max 0.1		
Cu	Max 0.1		Other, each	Max 0.05		Zn	Max 0.2		
Fe	Max 0.5		Other, total	Max 0.15					

Material Notes:

Material specs taken from SAPA / Indalex manual on extrusions.

Data points with the AA note have been provided by the Aluminum Association, Inc. and are NOT FOR DESIGN.

Physical Properties		Metric		English		Comments
Density		2.7 g/cc		0.0975 lb/in ³		AA; Typical
Mechanical Properties						
Hardness, Vickers		95		95		
Tensile Strength, Ultimate		290 MPa		42100 psi		wall thickness < 5 mm
Tensile Strength, Ultimate		310 MPa		45000 psi		wall thickness > 5 mm
Tensile Strength, Yield		250 MPa		36300 psi		wall thickness < 5 mm
Tensile Strength, Yield		260 MPa		37700 psi		wall thickness > 5 mm
Elongation at Break		10 %		10 %		
Thermal Properties						
Thermal Conductivity		170 W/m-K		1180 BTU-in/hr-ft ² -°F		

References are available for this material.

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