




Alloy 6082 by Metals Trading Company

Conforming to EU directives: 2000/53/CE (ELV) - 2011/65/EU (RoHS II)

Color code EU **BLUE**

PRODUCTION PROGRAM			
Unit:mm			
Drawn	10 ÷ 65	10 ÷ 36	20 ÷ 36
Extruded	20 ÷ 120	20 ÷ 36	20 ÷ 36

Aluminium alloy 6082 is a medium strength alloy with excellent corrosion resistance and excellent weldability. Alloy 6082 is typically used in highly stressed applications, structural parts for ground, Trusses, Bridges, Cranes, Transport applications, food industry, Beer Barrels.

CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb	Bi	Other	Al
0.70÷1.30	≤0.50	≤0.10	0.40÷1.00	0.60÷1.20	≤0.25		≤0.20	≤0.10			Each 0.05 Total 0.15	Remainder

PHYSICAL PROPERTIES

Density	$\frac{\text{Kg}}{\text{dm}^3}$	2.71
Modules of elasticity	MPa	69.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	24
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$	167
Typical electrical resistivity at 20°C	$\frac{\Omega\text{mm}^2}{\text{m}}$	0.037

MECHANICAL PROPERTIES

	Temper	Diam mm	Rm Mpa	Rp Mpa	A%	HBW Typical
Drawn	T6	≤80	310	255	10	95
	T6	≤150	310	260	8	95
Extruded	T6	150<D≤200	280	240	6	95
	T6	200<D≤250	270	200	6	95

PROPERTIES	T6			
Mechinability				
Protective anodizing				
Decorative anodizing				
Hard anodizing				
Resistance to atmospheric corrosion				
Resistance to marine corrosion				
MIG-TIG weldability				
At resistance weldability				
Brazing weldability				
Plastic formability when cold				
Plastic formability when hot				

Legend

Excellent

Good

Acceptable

Not recommended

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