

# Alloy 6061

# ALUMINIUM ALLOY

Aluminium / Aluminum alloys are sensitive to high temperatures. They tend to lose some of their strength when exposed to high temperatures of about 200-250°C. However, their strength can be increased at subzero temperatures. They also have good corrosion resistance. Aluminium / Aluminum 6061 alloy is the most commonly available and heat treatable alloy.

## Chemical Properties

Al	Cr	Cu	Fe	Mg	Mn	Zn	Si	Ti	Other each	Other Total
95.8-98.6	0.04-0.35	0.15-0.4	0.7 max	0.8-1.2	0.15 max	0.25 max	0.4-0.8	0.15 max	0.05 max	0.15 max

## Mechanical Properties

Yield strength	Tensile strength	Elongation	Hardness
Min 0.2% Mpa	Min Mpa	Min %	HRB
55.2	124	25	30

## Physical Properties

Density	Elastic Modulus	Thermal Conductivity	Melting Point
(Kg/m <sup>3</sup> )	(Gpa)	(W/m.K)	(nΩ.m)
2.7	68.9	180	582-652

## Equivalent Designation

UNS AA6061  
 Werkstoff no 3.3211  
 Din AlMg1SiCu  
 Jis 6061  
 ISO AlMg1SiCu

CUSTOMER ASSISTANCE : [customer@TorqBolt.com](mailto:customer@TorqBolt.com)