

Aluminium alloy 6061 is a medium to high strength heat-treatable alloy. It has very good corrosion resistance and very good weldability although reduced strength in the weld zone. It has medium fatigue strength.

## MECHANICAL PROPERTIES

Ultimate Tensile Strength	310 Mpa
Tensile Yield Strength	276 Mpa
Shear Strength	207 Mpa
Fatigue Strength	96.5 Mpa
Modulus of Elasticity	68.9 GPa
Shear Modulus	26 Gpa
Density	2.7g/cm <sup>3</sup>

## CHEMICAL COMPOSITION

Al	97%
Si	0.6%
Fe	0.32%
Mg	1.02%
Mn	0.09%
Cr	0.05%
Cu	0.18%
Zn	0.14%
Ti	0.08%

## APPLICATIONS

Aerospace fittings  
Automotive parts  
Hydraulic pistons  
Camera lenses  
Scuba tanks