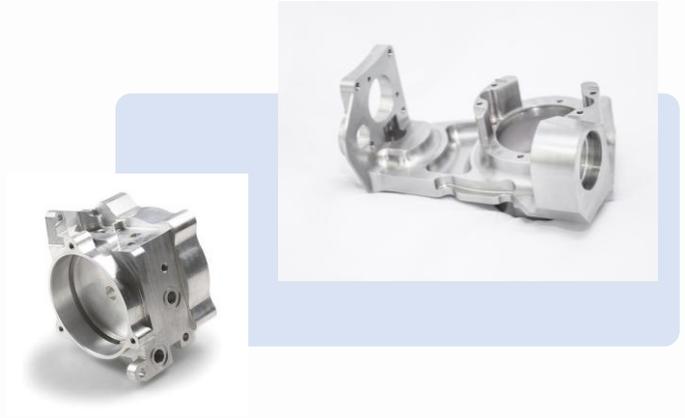


## Aluminum 6061

3.3211 | AlMg1SiCu

Aluminum 6061 is a medium-strength aluminum alloy with good corrosion resistance, weldability, and formability, especially high fatigue strength and excellent seawater resistance.



## Tolerance and Standard



### Max. Size

30 \* 22 \* 10cm

.00

### Tolerance

0.125mm



### Wall Thickness

0.75mm

## Pros and Cons



Excellent corrosion resistance  
Heat treatability  
Machinability



Lower fatigue strength  
Thermal expansion

## Applications

ARCHITECTURE

AUTOMOTIVE

CONSTRUCTION

ELECTRONICS

## Chemical Composition

Composition	Percentage, %
Aluminum(Al)	95.8 - 98.6
Zinc(Zn)	Max 0.25
Magnesium(Mg)	0.80-1.20
Copper(Cu)	0.15-0.40
Ferrous(Fe)	Max 0.70
Chromium(Cr)	0.04-0.35
Silicon(Si)	0.40-0.80
Manganese(Mn)	Max 0.15
Titanium(Ti)	Max 0.15

## Physical Properties

Characteristic	Metric
Tensile strength	310 MPa
Yield strength	276 MPa
Shear strength	207 MPa
Elongation at break	12%
Modulus of elasticity	68.9 GPa
Shear modulus	26.0 GPa
Linear thermal expansion coefficient	23.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$
Density	2.73 $\text{g}/\text{cm}^3$
Melting temperature	580 - 650 $^{\circ}\text{C}$