

# Material: SAE 6061

## Standard Specification For Aerospace Material Aluminium Alloy

**Group:** Non-Ferrous Aluminium Alloys

**Sub Group:** SAE 6061 Aerospace Material Aluminium Alloy

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Bar, Rod, Shapes, Tube and Wire, Extrusion

Chemical Composition		
Silicon	Si %	0.400 - 0.800
Chromium	Cr %	0.040 - 0.350
Manganese	Mn %	0.150 max.
Magnesium	Mg %	0.800 - 1.200
Copper	Cu %	0.150 - 0.400
Iron	Fe %	0.700 max.
Zinc	Zn %	0.250 max.
Titanium	Ti %	0.150 max.
Other	Ot %	1.000 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Temper or Solution Treated or Aging

Mechanical Properties	
Tensile Strength in Mpa	179 min.
Yield Strength in Mpa	97 min.
Elongation in %	16 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
6061	AS	Australia	Plate, Sheet, Rod, Bar, Wire and Strip
F901 6061	ASTM	USA	Bolt and Nut
SB-210 6061	ASME	USA	Tube
Alclad 6061	SAE	USA	Plate and Sheet
A05050	UNS	USA	Casting
A 6061S	JIS	Japan	Bar, Rod, Shapes, Tube and Wire, Extrusion
AL-P6061	UNI	Italy	Tube

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