

# Material: JIS A 6061S

## Standard Specification For Aluminium Alloy

**Group:** Non-Ferrous Aluminium Alloys

**Sub Group:** JIS A 6061S 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			Heat Treatment	
Silicon	Si %	0.400 - 0.800	As Raw or Temper or Solution Treated or Aging	
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	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	121.2 min.
-	-	-	Yield Strength in Mpa	49 - 305.1
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	41.835 - 55.904
-	-	-	Hardness in HB	104 - 106
-	-	-	Impact in Joule	12.1 - 21.8 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
6061	SAE	USA	Bar, Rod, Shapes, Tube and Wire, Extrusion
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
AL-P6061	UNI	Italy	Tube

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