

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		
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	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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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India