

Material: AS 6061

Standard Specification For Aluminium Alloy

Group: Non-Ferrous Aluminium Alloys

Sub Group: AS 6061 Aluminium Alloy

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

Grade Belongs to the Industry: Plate, Sheet, Rod, Bar, Wire and Strip

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 - 415
-	-	-	Yield Strength in Mpa	49 - 305.1
-	-	-	Elongation in %	4 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
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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