

Material: SAE 6063

Standard Specification For Aerospace Material Aluminium Alloy

Group: Non-Ferrous Aluminium Alloys

Sub Group: SAE 6063 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			Heat Treatment	
Silicon	Si %	0.200 - 0.600	As Raw or Temper or Solution Treated or Aging	
Chromium	Cr %	0.100 max.		
Manganese	Mn %	0.100 max.		
Magnesium	Mg %	0.450 - 0.900		
Copper	Cu %	0.100 max.		
Iron	Fe %	0.350 max.		
Zinc	Zn %	0.100 max.		
Titanium	Ti %	0.100 max.		
Other	Ot %	1.000 max.		
Aluminium	Al %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	110 min.
-	-	-	Yield Strength in Mpa	55 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
6063	AS	Australia	Wire, Rod, Bar and Strip
B 491 6063	ASTM	USA	Tube
A96063	UNS	USA	Bar, Rod, Shapes, Tube and Wire, Extrusion
EN AW-6063	DIN	Germany	Rod, Bar and Tube
6063	ISO	International	Rod, Bar and Tube
SB-241 6063	ASME	USA	Pipe and Tube
B 275 GS10A	ASTM	USA	Bar, Rod, Shapes, Tube and Wire, Extrusion

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