



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS A05050

Standard Specification For Aluminium Alloy

Group - Non-Ferrous Aluminium Alloys

Sub Group - UNS A05050 Aluminium Alloy

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

Grade Belongs to the Industry - Casting

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	
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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
A 6061S	JIS	Japan	Bar, Rod, Shapes, Tube and Wire, Extrusion
AL-P6061	UNI	Italy	Tube

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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