



Material - ISO 3522 Al Si12Cu1(Fe)

Standard Specification for Aluminium and Aluminium Alloys

Group - Non-Ferrous Aluminium Alloy

Sub Group - ISO 3522 for Aluminium and Aluminium Alloys

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Silicon	Si %	10.500 - 13.500		
Iron	Fe %	1.300 max.		
Copper	Cu %	0.700 - 1.200	As-Cast	
Manganese	Mn %	0.550 max.		
Magnesium	Mg %	0.350 max.		
Chromium	Cr %	0.100 max.		
Nickel	Ni %	0.300 max.		
Zinc	Zn %	0.550 max.		
Lead	Pb %	0.200 max.	Mechanical Properties	
Tin	Sn %	0.100 max.	Tensile Strength in Mpa	240 min.
Titanium	Ti %	0.200 max.	Yield Strength in Mpa	140 min.
Other	Ot%	0.250 max.	Elongation in %	1 min.
Aluminium	Al %	Balance	Reduction of Area in %	-
-	-		Hardness in HBW	70 min.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
EN AC-47100	DIN	Germany	Casting	
EN AC-47100	BS	British	Casting	
EN AC-47100	ASME	USA	Casting	
EN AC-47100	UNI	Italy	Casting	
EN AC-47100	AFNOR NF	France	Casting	
EN AC-47100	UNE	Spain	Casting	
EN AC-47100	SFS	Finland	Casting	

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

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