



Material - ISO 3522 Al Si12(Cu)

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	As-Cast	
Iron	Fe %	0.800 max.		
Copper	Cu %	1.000 max.		
Manganese	Mn %	0.050 - 0.550		
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.		
Tin	Sn %	0.100 max.		
Titanium	Ti %	0.200 max.	Mechanical Properties Tensile Strength in Mpa 150 min. Yield Strength in Mpa 80 min. Elongation in % 1 min. Reduction of Area in % - Hardness in HBW 50 min. Impact in Joule -	
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-47000	DIN	Germany	Casting
EN AC-47000	BS	British	Casting
EN AC-47000	ASME	USA	Casting
EN AC-47000	UNI	Italy	Casting
EN AC-47000	AFNOR NF	France	Casting
EN AC-47000	UNE	Spain	Casting
EN AC-47000	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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