

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.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

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	-

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

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