

Material: ISO 3522 Al Si5Cu1Mg

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 %	4.500 - 5.500	As-Cast or Aging			
Iron	Fe %	0.650 max.				
Copper	Cu %	1.000 - 1.500				
Manganese	Mn %	0.550 max.				
Magnesium	Mg %	0.350 - 0.650				
Nickel	Ni %	0.250 max.				
Zinc	Zn %	0.150 max.				
Lead	Pb %	0.150 max.				
Tin	Sn %	0.050 max.				
Titanium	Ti %	0.050 - 0.250				
Other	Ot%	0.150 max.	Mechanical Properties			
Aluminium	Al %	Balance			Tensile Strength in Mpa	170 min.
-	-	-			Yield Strength in Mpa	120 min.
-	-	-			Elongation in %	2 min.
-	-	-			Reduction of Area in %	-
-	-	-	Hardness in HBW	80 min.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45300	ASME	USA	Casting
EN AC-45300	DIN	Germany	Casting
EN AC-45300	BS	British	Casting
EN AC-45300	UNI	Italy	Casting
EN AC-45300	AFNOR NF	France	Casting
EN AC-45300	UNE	Spain	Casting
EN AC-45300	SFS	Finland	Casting

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