

Material: ISO 3522 Al Si5Cu3Mg

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 - 6.000	As-Cast	
Iron	Fe %	0.600 max.		
Copper	Cu %	2.600 - 3.600		
Manganese	Mn %	0.550 max.		
Magnesium	Mg %	0.050 max.		
Nickel	Ni %	0.100 max.		
Zinc	Zn %	0.200 max.		
Lead	Pb %	0.100 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.250 max.		
Other	Ot%	0.150 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	230 min.
-	-	-	Yield Strength in Mpa	110 min.
-	-	-	Elongation in %	6 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HBW	75 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45100	ASME	USA	Casting
EN AC-45100	DIN	Germany	Casting
EN AC-45100	BS	British	Casting
EN AC-45100	UNI	Italy	Casting
EN AC-45100	AFNOR NF	France	Casting
EN AC-45100	UNE	Spain	Casting
EN AC-45100	SFS	Finland	Casting

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