

Material: ISO 3522 Al Si5Cu3

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group: Non-Ferrous Aluminium Alloy

Sub Group: ISO 3522 Aluminium and Aluminium Alloys - Castings

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment			
Copper	Cu %	2.600 - 3.600	As-Cast			
Iron	Fe %	0.600 max.				
Magnesium	Mg %	0.050 max.				
Manganese	Mn %	0.550 max.				
Nickel	Ni %	0.100 max.				
Silicon	Si %	4.500 - 6.000				
Lead	Pb %	0.100 max.				
Tin	Sn %	0.050 max.				
Titanium	Ti %	0.250 max.				
Zinc	Zn %	0.200 max.				
Other	Ot%	0.150 max.				
Aluminium	Al %	Balance				
-	-	-			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	140 - 230		
-	-	-	Yield Strength in Mpa	110 min.		
-	-	-	Elongation in %	1 - 6		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HB	75 min.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4223	IS	India	Ingot and Casting
LM22	BS	British	Ingot and Casting
EN AC-45400	DIN	Germany	Casting
EN AC-Al Si5Cu3	CSN	International	Casting
EN AC-45400	SFS	Finland	Casting
EN AC-45400	ONORM	Australia	Casting
EN AC-45400	MSZ	Hungary	Casting

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