



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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.