



Material - ISO 3522 Al Si5Cu3Mn

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 %	0.800 max.		
Copper	Cu %	2.500 - 4.000		
Manganese	Mn %	0.200 - 0.550		
Magnesium	Mg %	0.400 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.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	160 min.
-	-	-	Yield Strength in Mpa	80 min.
-	-	-	Elongation in %	1 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HBW	70 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45200	DIN	Germany	Casting
EN AC-45200	BS	British	Casting
EN AC-45200	UNI	Italy	Casting
EN AC-45200	UNE	Spain	Casting
EN AC-45200	SFS	Finland	Casting
EN AC-45200	BDS	Bulgaria	Casting
EN AC-45200	CSN	Czech Republic	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.