



Material - ISO 3522 Al Si9Cu3(Fe)(Zn)

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 %	8.000 - 11.000	As-Cast	
Iron	Fe %	1.300 max.		
Copper	Cu %	2.000 - 4.000		
Manganese	Mn %	0.550 max.		
Magnesium	Mg %	0.050 - 0.550		
Chromium	Cr %	0.150 max.		
Nickel	Ni %	0.550 max.		
Zinc	Zn %	3.000 max.		
Lead	Pb %	0.350 max.		
Tin	Sn %	0.250 max.		
Titanium	Ti %	0.250 max.	Mechanical Properties	
Other	Ot%	0.250 max.	Tensile Strength in Mpa	240 min.
Aluminium	Al %	Balance	Yield Strength in Mpa	140 min.
-	-	-	Elongation in %	-
-	-	-	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-46500	DIN	Germany	Casting
EN AC-46500	BS	British	Casting
EN AC-46500	ASME	USA	Casting
EN AC-46500	UNI	Italy	Casting
EN AC-46500	AFNOR NF	France	Casting
EN AC-46500	UNE	Spain	Casting
EN AC-46500	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

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