GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 1706 EN AC-51500 I EN AC-Al Mg5Si2Mn

Standard Specification for Aluminium and Aluminium Alloys - Castings - Chemical Composition and Mechanical Properties

Group - Non-Ferrous Aluminium Alloys

Sub Group - BS EN 1706 EN AC-51500 I EN AC-Al Mg5Si2Mn Aluminium and Aluminium Alloys - Castings - Chemical Composition and Mechanical Properties

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Casting

Chemical Composition		
Silicon	Si %	1.800 - 2.600
Iron	Fe %	0.250 max.
Copper	Cu %	0.050 max.
Manganese	Mn %	0.400 - 0.800
Magnesium	Mg %	4.700 - 6.000
Zinc	Zn %	0.070 max.
Titanium	Ti %	0.250 max.
Other	Ot %	0.150 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
AC-51500	UNS	USA	Casting
EN 1676 AC-51400	DIN	Germany	Casting
1676 AB-51300	EN	European Union	Casting
1676 AB-51400	EN	European Union	Casting
EN 1676 AB-51400	DIN	Germany	Casting
EN 1676 AB-51300	DIN	Germany	Casting
H 5202 AL-Mg5Si1	JIS	Japan	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.