GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 1706 EN AC-42000 I EN AC-Al Si7Mg

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-42000 I EN AC-Al Si7Mg 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 %	6.500 - 7.500
Iron	Fe %	0.550 max.
Copper	Cu %	0.200 max.
Manganese	Mn %	0.350 max.
Magnesium	Mg %	0.200 - 0.650
Nickel	Ni %	0.150 max.
Zinc	Zn %	0.150 max.
Lead	Pb %	0.150 max.
Tin	Sn %	0.050 max.
Titanium	Ti %	0.250 max.
Other	Ot %	0.150 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Aging

Mechanical Properties	
Tensile Strength in Mpa	220 min.
Yield Strength in Mpa	180 min.
Elongation in %	1 min.
Reduction of Area in %	-
Hardness in HB	75 min.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
AC-42000	UNS	USA	Casting
3522 Al-Si7 Mg(Fe)	ISO	International	Casting
EN 1706 EN AC-42000	DIN	Germany	Casting
EN 1706 EN AC-Al Si7Mg	DIN	Germany	Casting
EN 1676 EN AB-42000	DIN	Germany	Casting
EN 1676 EN AB-Al Si7Mg	DIN	Germany	Casting
H 5202 Al Si7Mg	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.