GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 1706 EN AC-43000 I EN AC-Al Si10Mg

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-43000 I EN AC-Al Si10Mg 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 %	9.000 - 11.000
Iron	Fe %	0.550 max.
Copper	Cu %	0.050 max.
Manganese	Mn %	0.450 max.
Magnesium	Mg %	0.200 - 0.450
Nickel	Ni %	0.050 max.
Zinc	Zn %	0.100 max.
Lead	Pb %	0.050 max.
Tin	Sn %	0.050 max.
Titanium	Ti %	0.150 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-43000	UNS	USA	Casting
3522 Al-Si10 Mg	ISO	International	Casting
EN 1706 EN AC-43000	DIN	Germany	Casting
EN 1706 EN AC-Al Si10Mg	DIN	Germany	Casting
EN 1676 EN AB-43000	DIN	Germany	Casting
EN 1676 En AB-Al Si10Mg(a)	DIN	Germany	Casting
H 5202 Al Si10Mg	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.