GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - DIN EN 1706 EN AC-71000 I EN AC-Al Zn5Mg

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group - Non-Ferrous Aluminium Alloys

Sub Group - DIN EN 1706 EN AC-71000 I EN AC-Al Zn5Mg Aluminium and Aluminium Alloys - Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Silicon	Si %	0.300 max.
Iron	Fe %	0.800 max.
Copper	Cu %	0.150 - 0.350
Manganese	Mn %	0.400 max.
Magnesium	Mg %	0.400 - 0.700
Chromium	Cr %	0.150 - 0.600
Nickel	Ni %	0.050 max.
Zinc	Zn %	4.500 - 6.000
Lead	Pb %	0.050 max.
Tin	Sn %	0.050 max.
Titanium	Ti %	0.100 - 0.250
Other	Ot %	0.150 max.
Aluminium	Al %	Balance
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Aging

Mechanical Properties	
Tensile Strength in Mpa	190 min.
Proof Strength in Mpa	120 min.
Elongation in %	4 min.
Reduction of Area in %	-
Hardness in HB	60 min.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
AC-71000	UNS	USA	Casting
3522 Al-Zn5 Mg	ISO	International	Casting
EN 1676 EN AB-71000	DIN	Germany	Casting
EN 1676 EN AB-Al Zn5Mg	DIN	Germany	Casting
H 5202 Al Zn5Mg	JIS	Japan	Casting
H 2211 Al-Zn5Mg.1	JIS	Japan	Ingot and Casting
H 2211 Al-Zn5Mg.2	JIS	Japan	Ingot and 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.