



Material - UNI EN 1706 AC-42100

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNI EN 1706 Aluminium and Aluminium Alloys - Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.050 max.	As-Cast or Solution Anneling and Aging	
Iron	Fe %	0.190 max.		
Magnesium	Mg %	0.250 - 0.450		
Manganese	Mn %	0.100 max.		
Silicon	Si %	6.500 - 7.500		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	0.070 max.		
Other	Ot%	0.100 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	200 - 340
-	-	-	Yield Strength in Mpa	120 - 280
-	-	-	Elongation in %	2 - 12
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	60 - 125
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-42100	DIN	Germany	Casting
EN AC-42100	BS	British	Casting
EN AC-42100	UNE	Spain	Casting
Al Si7Mg0.3	ISO	International	Casting
EN AC-42100	SFS	Finland	Casting
EN AC-42100	AFNOR NF	France	Casting
EN AC-42100	MSZ	Hungary	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.