



Material - IS 617 5230

Standard Specification for Aluminium and Aluminium Alloys Ingot and Casting for General Engineering Purposes

Group - Non-Ferrous Aluminium Alloy

Sub Group - IS 617 Aluminium and Aluminium Alloys Ingot and Casting for General Engineering Purposes

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

Grade Belongs to the Industry - Ingot and Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.100 max.	As-Cast	
Magnesium	Mg %	3.000 - 6.000		
Silicon	Si %	0.300 max.		
Iron	Fe %	0.600 max.		
Manganese	Mn %	0.300 - 0.700		
Nickel	Ni %	0.100 max.		
Zinc	Zn %	0.100 max.		
Lead	Pb %	0.050 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.200 max.		
Aluminium	Al %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	140 - 170
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	3 - 5
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM5	BS	British	Ingot and Casting
EN AC-51300	AFNOR NF	France	Ingot and Casting
EN AC-51300	DIN	Germany	Ingot and Casting
EN AC-51300	ONORM	Australia	Ingot and Casting
EN AC-51300	EN	European Union	Ingot and Casting
EN AC-51300	BDS	Bulgaria	Ingot and Casting
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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