



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ANSI/AA 383

Standard Specification for Aluminium Alloy for General Engineering and Light-Weight Structural Purpose

Group - Non-Ferrous Aluminium Alloy

Sub Group - ANSI/AA Aluminium Alloy for General Engineering and Light-Weight Structural Purpose

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Silicon	Si %	9.500 - 11.500	As-Cast	
Iron	Fe %	1.300 max.		
Copper	Cu %	2.000 - 3.000		
Magnesium	Mg %	0.100 max.		
Manganese	Mn %	0.500 max.		
Nickel	Ni %	0.300 max.		
Zinc	Zn %	3.000 max.		
Tin	Sn %	0.150 max.		
Other	Ot%	0.500 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 310 min. Yield Strength in Mpa 152 min. Elongation in % 3.5 min. Reduction of Area in % - Hardness in BHN 75 min. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 275 383.0	ASTM	USA	Casting
AA335	AS	Australia	Ingots and Casting
A03830	UNS	USA	Ingots and Casting
A03830	SAE	USA	Ingots and Casting
383.0	NBR	Brazil	Casting
383.0	NMX	Maxico	Casting
B 85 SC102A	ASTM	USA	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.

ONE STOP SOLUTION FOR METAL PARTS