



Material - ASTM B85 S12B

Standard Specification for Aluminium Alloys for Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - ASTM B85/B85M Aluminium Alloys for Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	1.000 max.	As-Cast	
Iron	Fe %	2.000 max.		
Magnesium	Mg %	0.100 max.		
Manganese	Mn %	0.350 max.		
Nickel	Ni %	0.500 max.		
Silicon	Si %	11.000 - 13.000		
Tin	Sn %	0.150 max.		
Zinc	Zn %	0.500 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	295 min.
			Yield Strength in Mpa	145 min.
			Elongation in %	2.5 min.
			Reduction of Area in %	-
			Hardness in HB	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 275 S12B	ASTM	USA	Casting
A04130	UNS	USA	Casting
A04130	SAE	USA	Casting
13	AA	USA	Casting
413.0	NBR	Brazil	Casting
413.0	NMX	Maxico	Casting
413.0	SAE	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

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