



Material - ASTM B85 S12A

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 %	1.300 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		290 min.		
Yield Strength in Mpa		130 min.		
Elongation in %		3.5 min.		
Reduction of Area in %		-		
Hardness in HB		-		
Impact in Joule		-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B275 S12A	ASTM	USA	Casting
A14130	UNS	USA	Casting
A14130	SAE	USA	Casting
A13	AA	USA	Casting
A413.0	NBR	Brazil	Casting
A413.0	NMX	Maxico	Casting
A413.0	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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