



Material - ANSI/AA 13

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 %	11.000 - 13.000	As-Cast	
Iron	Fe %	2.000 max.		
Copper	Cu %	1.000 max.		
Magnesium	Mg %	0.100 max.		
Manganese	Mn %	0.350 max.		
Nickel	Ni %	0.500 max.		
Zinc	Zn %	0.500 max.		
Tin	Sn %	0.150 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	296 min.
-	-	-	Yield Strength in Mpa	145 min
-	-	-	Elongation in %	2.5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	80 min.
-	-	-	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
B85 S12B	ASTM	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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