

Material: ANSI/AA A13

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 %	1.300 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 290 min. Yield Strength in Mpa 131 min. Elongation in % 3.5 min. Reduction of Area in % - Hardness in BHN 80 min. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B275 S12A	ASTM	USA	Casting
A14130	UNS	USA	Casting
A14130	SAE	USA	Casting
B85 S12A	ASTM	USA	Casting
A413.0	NBR	Brazil	Casting
A413.0	NMX	Maxico	Casting
A413.0	SAE	USA	Casting

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