

Material: SAE J 452 413.0

Standard Specification for Aluminium and Aluminium Alloy - Ingot and Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: SAE J 452 Aluminium and Aluminium Alloy - Ingot and Casting

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

Belongs to the Industry: Casting

Chemical Composition		
Copper	Cu %	1.000 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast	

Mechanical Properties	
Tensile Strength in Mpa	295 - 300
Yield Strength in Mpa	140 - 145
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
B85 S12B	ASTM	USA	Casting
413.0	NBR	Brazil	Casting
413.0	NMX	Maxico	Casting
13	AA	USA	Casting

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