

## Material: SAE J 452 A413.0

### 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			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		
-	-	-	<b>Mechanical Properties</b> 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      -	
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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
A13	AA	USA	Casting

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