

## Material: SAE J 452 A03840

### 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:** Ingot and Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	3.000 - 4.503	As-Cast	
Iron	Fe %	1.300 max.		
Magnesium	Mg %	0.100 max.		
Manganese	Mn %	0.500 max.		
Nickel	Ni %	0.500 max.		
Silicon	Si %	10.500 - 12.000		
Tin	Sn %	0.350 max.		
Zinc	Zn %	3.000 max.		
Other	Ot%	0.500 max.		
Aluminium	Al %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      330 min. Yield Strength in Mpa      165 min. Elongation in %      2.5 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
B 275 383.0	ASTM	USA	Casting
AA335	AS	Australia	Ingot and Casting
A03830	UNS	USA	Ingot and Casting
384	AA	USA	Casting
383.0	NBR	Brazil	Casting
383.0	NMX	Maxico	Casting
SC102A	ASTM	USA	Casting

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