

## Material: ANSI AA A357.0

### Standard Specification for Aluminium and Aluminium Alloys Ingot and Casting

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** ANSI AA A357.0 Aluminium and Aluminium Alloys - 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 %	0.200 max.	As-Cast	
Magnesium	Mg %	0.400 - 0.700		
Silicon	Si %	6.500 - 7.500		
Iron	Fe %	0.200 max.		
Manganese	Mn %	0.100 max.		
Beryllium	Be %	0.040 - 0.070		
Titanium	Ti %	0.040 - 0.200		
Zinc	Zn %	0.100 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	310 min.
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	3 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	85 - 115
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM25	BS	British	Ingot and Casting
AA601	AS	Australia	Ingot and Casting
AA603	AS	Australia	Ingot and Casting
AC601	AS	Australia	Ingot and Casting
AC603	AS	Australia	Ingot and Casting
AP601	AS	Australia	Ingot and Casting
AP603	AS	Australia	Ingot and Casting

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