

# Material: JIS H 5302 ADC12

## Standard Specification for Aluminium Alloy Casting

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** JIS H 5302 Aluminium Alloy Casting

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	1.500 - 3.500	As-Cast	
Magnesium	Mg %	0.300 max.		
Silicon	Si %	9.600 - 12.000		
Iron	Fe %	1.300 max.		
Manganese	Mn %	0.500 max.		
Nickel	Ni %	0.500 max.		
Tin	Sn %	0.200 max.		
Lead	Pb %	0.200 max.		
Titanium	Ti %	0.300 max.		
Zinc	Zn %	1.000 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	225 min.
			Yield Strength in Mpa	-
			Elongation in %	1.5 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AS401	AS	Australia	Ingot and Casting
DA401	AS	Australia	Ingot and Casting
AlSi12 (Fe)	ISO	International	Casting
A413.0	NMX	Maxico	Ingot and Casting
LM20	BS	British	Ingot and Casting
A413.0	AA	USA	Ingot and Casting
A413.0	NBR	Brazil	Ingot and Casting

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