

## Material: JIS H 5202 AC8C

### Standard Specification for Aluminium Alloys for Casting

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** JIS H 5202 Aluminium Alloys for Casting

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment		
Copper	Cu %	2.000 - 4.000	As-Cast		
Iron	Fe %	1.000 max.			
Magnesium	Mg %	0.500 - 1.500			
Manganese	Mn %	0.500 max.			
Nickel	Ni %	0.500 max.			
Lead	Pb %	0.100 max.			
Silicon	Si %	8.500 -10.500			
Tin	Sn %	0.100 max.			
Titanium	Ti %	0.200 max.			
Chromium	Cr %	0.100 max.			
Zinc	Zn %	0.500 max.			
Aluminium	Al %	Balance			
-	-	-			<b>Mechanical Properties</b>
Tensile Strength in Mpa		170 - 270			
Yield Strength in Mpa		-			
Elongation in %		-			
Reduction of Area in %		-	Hardness in HB		85 - 110
-		-	Impact in Joule		-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AA305	AS	Australia	Ingot and Casting
305	AS	Australia	Ingot and Casting
AC8B	JIS	Japan	Casting
332.0	AA	USA	Ingot and Casting
LM26	BS	British	Ingot and Casting
AC8C	KS	Korea	Casting
A03320	UNS	USA	Casting

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