

# Material: CSN 42 4336 AlSi12NiCuMg

## Standard Specification for Aluminium alloy for Castings

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** CSN 42 4336 Aluminium alloy for Castings

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.800 - 1.500	As-Cast	
Iron	Fe %	0.500 max.		
Magnesium	Mg %	0.900 - 1.300		
Manganese	Mn %	0.300 max.		
Nickel	Ni %	8.000 - 1.300		
Silicon	Si %	11.000 - 13.000		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	140 - 220
			Yield Strength in Mpa	-
			Elongation in %	0.5 min.
			Reduction of Area in %	-
			Hardness in HB	80 - 90
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AC8A	JIS	Japan	Casting
A-S12UN	AFNOR NF	France	Casting
AA319	AS	Australia	Ingot and Casting
319	AS	Australia	Ingot and Casting
LM13	BS	Czech Republic	Casting
-	-	-	-
-	-	-	-

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