

Material: SAE J 452 712.0

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: SAE J 452 Aluminium and Aluminium Alloys - Casting

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment			
Copper	Cu %	0.250 max.	As-Cast			
Iron	Fe %	0.500 max.				
Magnesium	Mg %	0.500 - 0.650				
Manganese	Mn %	0.100 max.				
Silicon	Si %	0.300 max.				
Titanium	Ti %	0.150 - 0.250				
Zinc	Zn %	5.000 - 6.500				
Chromium	Cr %	0.400 - 0.600				
Other	Ot%	0.200 max.				
Aluminium	Al %	Balance				
-	-	-	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	235 min.
-	-	-			Yield Strength in Mpa	170 min.
-	-	-			Elongation in %	4 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in HB	60 - 90
-	-	-			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM31	BS	British	Ingot and Casting
712.0	AA	USA	Casting
Al Zn5Mg	ISO	International	Ingot and Casting
BA701	AS	Australia	Ingot and Casting
L-2710	UNE	Spain	Ingot and Casting
B-26 712.0	ASTM	USA	Casting
A-Z5G	AFNOR NF	France	Ingot and Casting

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