

Material: AFNOR NF A57-702 A-Z5G

Standard Specification for Aluminium and Aluminium Alloy Sand Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: AFNOR NF A57-702 Aluminium and Aluminium Alloy Sand Casting

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment															
Copper	Cu %	0.150 - 0.350	As-Cast															
Iron	Fe %	0.800 max.																
Magnesium	Mg %	0.400 - 0.700																
Manganese	Mn %	0.400 max.																
Silicon	Si %	0.300 max.																
Titanium	Ti %	0.150 - 0.250																
Zinc	Zn %	4.500 - 6.000																
Chromium	Cr %	0.150 - 0.600																
Nickel	Ni %	0.050 max.																
Lead	Pb %	0.050 max.																
Tin	Sn %	0.050 max.																
Other	Ot%	0.150 max.																
Aluminium	Al %	Balance																
-	-	-	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>190 - 350</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>120 - 290</td> </tr> <tr> <td>Elongation in %</td> <td>4 - 14</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>60 min.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	190 - 350	Yield Strength in Mpa	120 - 290	Elongation in %	4 - 14	Reduction of Area in %	-	Hardness in HB	60 min.	Impact in Joule	-
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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
712.0	SAE	USA	Casting
BA701	AS	Australia	Ingot and Casting
L-2710	UNE	Spain	Ingot and Casting
B-26 712.0	ASTM	USA	Casting

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