

Material: BS 3100 Grade AL1

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 3100 Grade AL1 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.100 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.150 max.		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.		
Other	Ot %	0.800 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 430 min. Yield Strength in Mpa 230 min. Elongation in % 22 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 20 J @ RT	
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-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1522.0000	SAE	USA	Casting
1522	AISI	USA	Bar
1.0044	ONORM	Australia	Casting
1.0138	ONORM	Australia	Casting
A 29 1522	ASTM	USA	Bar
A 510 1522	ASTM	USA	Wire and Rod
A 576 15L22	ASTM	USA	Bar

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