

Material: AISI 4615

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 4615 Alloy Steel Casting

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 - 0.180	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.450 - 0.650		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Nickel	Ni %	1.650 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Chromium	Cr %	0.200 max.		
Copper	Cu %	0.350 max.		
Vanadium	V %	0.020 - 0.080	Mechanical Properties	
Niobium	Nb %	0.020 - 0.050	Tensile Strength in Mpa	480 - 965
Aluminium	Al %	0.020 - 0.050	Yield Strength in Mpa	-
Iron	Fe %	Balance	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	174 - 241
			Impact in Joule	0

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4615.0000	SAE	USA	Steel
4617.0000	AISI	USA	Bar, Steel and Forging
4617.0000	SAE	USA	Bar, Steel and Forging
4620.0000	SAE	USA	Steel
4620.0000	AISI	USA	Steel
A757 C1Q	ASTM	USA	Casting
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