

Material: UNS J11697

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J11697 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 - 0.200	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.600		
Manganese	Mn %	0.500 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	1.000 - 1.500		
Molybdenum	Mo %	0.900 - 1.200		
Vanadium	V %	0.050 - 0.150		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	45 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A356 8	ASTM	USA	Casting
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