

Material: UNS J13345

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J13345 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 %	0.330 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.750 - 1.100		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.150 - 0.300	Mechanical Properties	
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	620 min.
			Yield Strength in Mpa	415 min.
			Elongation in %	18 min.
			Reduction of Area in %	35 min.
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA 487 Grade 9A	ASME	USA	Casting
SA 487 Grade 9B	ASME	USA	Casting
A487 9B	ASTM	USA	Casting
A487 9C	ASTM	USA	Casting
A487 9D	ASTM	USA	Casting
A487 9E	ASTM	USA	Casting
A487 9A	ASTM	USA	Casting

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