

Material: ASME SA487 Grade 11A

Standard Specification for Low Alloy Steel and Martensitic Stainless Steel Castings

Group: Ferrous Mild Steel Alloys

Sub Group: ASME SA487 Grade 11A Low Alloy Steel and Martensitic Stainless Steel Castings

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.200	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.800		
Nickel	Ni %	0.700 - 1.100		
Molybdenum	Mo %	0.450 - 0.650		
Vanadium	V %	0.030 max.	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	484 - 655
Copper	Cu %	0.500 max.	Yield Strength in Mpa	275 min.
Other	Ot %	0.500 max.	Elongation in %	20 min.
Iron	Fe %	Balance	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA217 Grade WC4	ASME	USA	Casting
A487 Grade 11	ASTM	USA	Casting
J12082	UNS	USA	Casting
SA487 Grade 11B	ASME	USA	Casting
A217 Grade WC4	ASTM	USA	Casting
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