

Material: ASME SA 487 Grade 9B

Low Alloy Steel and Martensitic Steel Castings Suitable for Pressure Containing Parts

Group: Ferrous Mild Steel Alloys

Sub Group: SA-487 Low Alloy Steel and Martensitic Steel Castings Suitable for Pressure Containing Parts

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 - 0.330	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.600 - 1.000		
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		
Tungsten	W %	0.100 max.	Mechanical Properties	
Vanadium	V %	0.030 max.	Tensile Strength in Mpa	725 min.
Copper	Cu %	0.500 max.	Yield Strength in Mpa	585 min.
Iron	Fe %	Balance	Elongation in %	16 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
J13345	UNS	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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