

Material: ASME SA-487 Grade 10B

Standard Specification for Low Alloy Steel and Martensitic Stainless Steel Castings Suitable for Pressure Containing Parts

Group: Ferrous Mild Steel Alloys

Sub Group: ASME SA-487 Grade 10B Low Alloy Steel and Martensitic Stainless 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		
Carbon	C %	0.300 max.
Silicon	Si %	0.800 max.
Manganese	Mn %	0.600 - 1.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.550 - 0.900
Nickel	Ni %	1.400 - 2.000
Molybdenum	Mo %	0.200 - 0.400
Vanadium	V %	0.030 max.
Tungsten	W %	0.100 max.
Copper	Cu %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	690 min.
Elongation in %	15 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 10A	ASME	USA	Casting
J23015	UNS	USA	Casting
A487 10B	ASTM	USA	Casting
A732 9Q	ASTM	USA	Casting
J23055	UNS	USA	Casting
4330	AISI	USA	Forging, Bar, Wire, and Shape
A487 10A	ASTM	USA	Casting

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