

Material: ASME SA-487 Grade 10A

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 10A 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			Heat Treatment	
Carbon	C %	0.300 max.	Annealing or Normalizing or Hardening + Tempering	
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.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	690 min.
-	-	-	Yield Strength in Mpa	485 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
J23015	UNS	USA	Casting
SA-487 Grade 10B	ASME	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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