

Material: ASME SA-487 Grade 7 Class A

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 7A 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 %	0.050 - 0.200
Silicon	Si %	0.800 max.
Manganese	Mn %	0.600 - 1.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.400 - 0.800
Nickel	Ni %	0.700 - 1.000
Molybdenum	Mo %	0.400 - 0.600
Copper	Cu %	0.150 - 0.500
Vanadium	V %	0.030 - 0.100
Boron	B %	0.002 - 0.006
Tungsten	W %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	795 min.
Yield Strength in Mpa	690 min.
Elongation in %	15 min.
Reduction of Area in %	30 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8719	DIN	Germany	Steel
1.892	EN	European Union	Steel
6386 Type 12	AMS	USA	Steel
K11576	UNS	USA	Casting
J12084	UNS	USA	Casting
SA-592 Grade F	ASME	USA	Forging
A487 7A	ASTM	USA	Casting

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