

# Material: ASME SA-487 6B

## 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 6B 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 - 0.380
Silicon	Si %	0.800 max.
Manganese	Mn %	1.300 - 1.700
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.400 - 0.800
Nickel	Ni %	0.400 - 0.800
Molybdenum	Mo %	0.300 - 0.400
Copper	Cu %	0.500 max.
Vanadium	V %	0.030 max.
Tungsten	W %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	825 min.
Yield Strength in Mpa	655 min.
Elongation in %	12 min.
Reduction of Area in %	25 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Fe E 420	UNI	Italy	Steel
SA-487 6A	ASME	USA	Casting
J13855	UNS	USA	Casting
A487 6A	ASTM	USA	Casting
A487 6B	ASTM	USA	Casting
-	-	-	-
-	-	-	-

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