

## Material: ASME SA-487 Grade 13A

### 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 13A 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 %	0.030 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 - 1.100		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.400 max.		
Nickel	Ni %	1.400 - 1.750		
Molybdenum	Mo %	0.200 - 0.300		
Tungsten	W %	0.100 max.	Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	620 - 795
Vanadium	V %	0.030 max.	Yield Strength in Mpa	415 min.
Iron	Fe %	Balance	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
J13080	UNS	USA	Casting
SA-487 Grade 13B	ASME	USA	Casting
A487 13A	ASTM	USA	Casting
A732 1Q	ASTM	USA	Casting
J24054	UNS	USA	Casting
4340	AISI	USA	Forging, Bar, Wire, and Shape
A487 13A	ASTM	USA	Casting

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