

## Material: ASTM A487 8(A)

### Standard Specification for Steel Castings Suitable for Pressure Service

Group: *Ferrous Mild Steel Alloys*

Sub Group: *ASTM A487 / AA87M Steel Castings Suitable for Pressure Service*

Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade*

Belongs to the Industry: *Casting*

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.200	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.500 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	2.000 - 2.750		
Copper	Cu %	0.500 max.		
Molybdenum	Mo %	0.900 - 1.100		
Tungsten	W %	0.100 max.		
Vanadium	V %	0.030 max.		
other	Ot %	0.600 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	585 - 760
-	-	-	Yield Strength in Mpa	380 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22091	UNS	USA	Casting
A487 8B	ASTM	USA	Casting
A487 8C	ASTM	USA	Casting
SA-487 Class 8N	ASME	USA	Casting
SA-487 8A	ASME	USA	Casting
SA-487 8B	ASME	USA	Casting
SA-487 8C	ASME	USA	Casting

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