

Material: ASTM A487 4(B)

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 %	0.300 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400 - 0.800		
Nickel	Ni %	0.400 - 0.800		
Molybdenum	Mo %	0.150 - 0.300		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.		
Tungsten	W %	0.100 max.	Mechanical Properties Tensile Strength in Mpa 725 - 895 Yield Strength in Mpa 585 min. Elongation in % 17 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule -	
Other	Ot %	0.600 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13047	UNS	USA	Casting
8620	AISI	USA	Forging, Bar, Wire, and Shape
8620	SAE	USA	Bar, Wire, Sheet, Strip and Forging
8620	AMS	USA	Bar and Forging
J12048	UNS	USA	Casting
A487 4A	ASTM	USA	Casting
A487 4E	ASTM	USA	Casting

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