



## Material - ASTM A487 11(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 %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.800		
Nickel	Ni %	0.700 - 1.100		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.		
Tungsten	W %	0.100 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      484 - 655 Yield Strength in Mpa      275 min. Elongation in %      20 min. Reduction of Area in %      35 min. Hardness in BHN      - Impact in Joule      -	
Other	Ot %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12082	UNS	USA	Casting
A487 11B	ASTM	USA	Casting
J12084	UNS	USA	Casting
1.8719	DIN	Germany	Steel
1.8920	EN	European Union	Steel
9386 Type 12	AMS	USA	Casting
K11576	UNS	USA	Casting

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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