



Material - ASTM A487 7(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 %	0.600 - 1.000		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400 - 0.800		
Nickel	Ni %	0.700 - 1.000		
Molybdenum	Mo %	0.400 - 0.600		
Copper	Cu %	0.150 - 0.500		
Vanadium	V %	0.030 - 0.100		
Tungsten	W %	0.100 max.	Mechanical Properties	
Boron	B %	0.002 - 0.006	Tensile Strength in Mpa	795 min.
Other	Ot %	0.600 max.	Yield Strength in Mpa	690 min.
Iron	Fe %	Balance	Elongation in %	15 min.
-	-	-	Reduction of Area in %	30 min.
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12084	UNS	USA	Casting
1.8719	DIN	Germany	Steel
1.892	EN	European Union	Steel
6380 Type 12	AMS	USA	Steel
K11576	UNS	USA	Casting
SA-487 7A	ASME	USA	Casting
SA-592 Grade F	ASME	USA	Forging

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

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