



Material - ASTM A487 6(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 - 0.380	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.300 -1.700		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400 - 0.800		
Nickel	Ni %	0.400 - 0.800		
Molybdenum	Mo %	0.300 - 0.400		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.		
Tungsten	W %	0.100 max.	Mechanical Properties	
Other	Ot %	0.600 max.	Tensile Strength in Mpa	795 min.
Iron	Fe %	Balance	Yield Strength in Mpa	550 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	30 min.
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13855	UNS	USA	Casting
FeE 420	UNI	Italy	Steel
SA-487 Grade 6A	ASME	USA	Casting
SA-487 Grade 6B	ASME	USA	Casting
A487 6B	ASTM	USA	Casting
A487 Grade 6N	ASTM	USA	Casting
A487 Grade 6Q	ASTM	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

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