

Material: ASTM A487 Grade 12

Standard Specification for Steel Castings Suitable for Pressure Service

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A487 Grade 12 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	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.900		
Nickel	Ni %	0.600 - 1.000		
Molybdenum	Mo %	0.900 - 1.200		
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.		
			Mechanical Properties	
Other	Ot %	0.500 max.	Tensile Strength in Mpa	484 - 655
Iron	Fe %	Balance	Yield Strength in Mpa	275 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
SA-217 Grade WC5	ASME	USA	Casting
J22000	UNS	USA	Casting
SA-487 Grade 12A	ASME	USA	Casting
SA-487 Grade 12B	ASME	USA	Casting
A217 Grade WC5	ASTM	USA	Casting
-	-	-	-
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Customer Care: +91-99090 45075 Email: info@icastllp.com