

Material: ASME SA-487 Grade 12A

Standard Specification for Low Alloy Steel and Martensitic Stainless Steel Castings Suitable for Pressure Containing Parts

Group: Ferrous Mild Steel Alloys

Sub Group: ASME SA-487 Grade 12A Low Alloy Steel and Martensitic Stainless Steel Castings Suitable for Pressure Containing Parts

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 Normalizing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.500 - 0.900		
Nickel	Ni %	0.600 - 1.000		
Molybdenum	Mo %	0.900 - 1.200		
Vanadium	V %	0.030 max.		
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.	Mechanical Properties	
Iron	Fe %	Balance	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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22000	UNS	USA	Casting
SA-487 Grade 12B	ASME	USA	Casting
SA-217 Grade WC5	ASME	USA	Casting
A487 12B	ASTM	USA	Casting
A217 WC5	ASTM	USA	Casting
A487 12N	ASTM	USA	Casting
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