

Material: ASTM A487 2(B)

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 %	0.300 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.000 - 1.400		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.100 - 0.300		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.		
Tungsten	W %	0.100 max.		
Other	Ot %	1.000 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	620 - 795
Yield Strength in Mpa	450 min.
Elongation in %	22 min.
Reduction of Area in %	40 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13005	UNS	USA	Casting
1.0457	EN	European Union	Pipes
1.0484	DIN	Germany	Pipes
13030	CSN	Czech Republic	Steel
20 MB5	AFNOR NF	France	Cold Rolled and Strips
230 - 45000	JIS	Japan	Casting
3	AS	Australia	Hot Rolled Bar

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