



Material - BS BW10

Standard Specification for Mn Alloy Steel; Steel Castings for General Engineering Purposes

Group - Ferrous Austenitic Manganese Steel Alloy

Sub Group - BS BW10 Mn Alloy Steel; Steel Castings for General Engineering Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	1.000 - 1.350	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	11.000 min.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 880 min. Yield Strength in Mpa 315 min. Elongation in % 40 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Z 120 M 12	AFNOR NF	France	Steel
X 120 Mn 12	DIN	Germany	Steel
110G13L	GOST	Russia	Casting
SCMnH 1	JIS	Japan	Casting
G X 120 Mn 12	UNI	Italy	Casting
J91109	UNS	USA	Casting
A128 Grade A	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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