



Material - DIN X 120 Mn 12

Standard Specification for Wear Ressisting High Alloyed Mn Steel

Group - Ferrous Austenitic Manganese Steel Alloy
Sub Group - DIN X 120 Mn 12 Wear Ressisting High Alloyed Mn Steel
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - steel

Chemical Composition			Heat Treatment	
Carbon	C %	1.100 - 1.300		
Silicon	Si %	0.300 - 0.500		
Manganese	Mn %	12.000 - 13.000	Annealing or Normalising or Hardening + Tempering	
Phosphorus	P %	0.100 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	1.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	/ -		Tensile Strength in Mpa	800 - 1000
-	-	-	Yield Strength in Mpa	350 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
BW10	BS	British	Casting	
Z 120 M 12	AFNOR NF	France	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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