

Material: DIN X 120 Mn 12

Standard Specification for Wear Resisting High Alloyed Mn Steel

Group: Ferrous Austenitic Manganese Steel Alloy

Sub Group: DIN X 120 Mn 12 Wear Resisting High Alloyed Mn Steel

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

Grade Belongs to the Industry: steel

Chemical Composition		
Carbon	C %	1.100 - 1.300
Silicon	Si %	0.300 - 0.500
Manganese	Mn %	12.000 - 13.000
Phosphorus	P %	0.100 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	1.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

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	-
Impact in Joule	-

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

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