

## Material: AFNOR NF Z 120 M 12

### Standard Specification for Non Standardized

**Group:** Ferrous Austenitic Manganese Steel Alloy

**Sub Group:** AFNOR NF Z 120 M 12 Non Standardized

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

**Grade Belongs to the Industry:** Steel

Chemical Composition			Heat Treatment	
Carbon	C %	1.050 -1.350	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.600		
Manganese	Mn %	11.000 - 14.000		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.035 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> 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
BW10	BS	British	Casting
X 120 Mn 12	DIN	Germany	Steel
11OG13L	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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