

Standard Specification for Alloy Steel; Special, Wear-Resisting Steel Sand Castings

Sub Group: UNI G X 120 Mn 12 Alloy Steel; Special, Wear-Resisting Steel Sand Castings

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 - 1.400	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	10.000 - 14.000		
Phosphorus	P %	0.100 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	-
			Yield Strength in Mpa	-
			Elongation in %	-
			Reduction of Area in %	-
			Hardness in HB	170 min.
			Impact in Joule	-

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
Z 120 M 12	AFNOR NF	France	Steel
J91109	UNS	USA	Casting
A128 Grade A	ASTM	USA	Casting

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