



## Material - UNI G X 120 Mn 12

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

**Group - Ferrous Austenitic Manganese Steel Alloy**

**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 Normalising 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		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in HB 170 min. 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
110G13L	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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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