

Material: ASTM A128 Grade B-3

Standard Specification for Steel Castings, Austenitic Manganese

Group: Ferrous Austenitic Manganese Steel Alloy

Sub Group: ASTM A128 / A128M Steel Castings, Austenitic Manganese

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	1.120 - 1.280	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	11.500 - 14.000		
Phosphorus	P %	0.070 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	-
			Yield Strength in Mpa	-
			Elongation in %	-
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-
Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
Z 120 M 12	AFNOR NF	France	Steel	
BW10	BS	British	Casting	
X 120 Mn 12	DIN	Germany	Steel	
110G13L	GOST	Russia	Casting	
SCMnH1	JIS	Japan	Casting	
G X 120 Mn 12	UNI	Italy	Casting	
J91109	UNS	USA	Casting	

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