

Material: UNS J91109

Standard Specification for Austenitic Manganese Steel Casting

Group: Ferrous Austenitic Manganese Steel Alloy

Sub Group: UNS J91109 Austenitic Manganese Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	1.050 - 1.350	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	11.000 min.		
Phosphorus	P %	0.070 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties 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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-	-	-		
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-	-	-		
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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
Z 120 M 12	AFNOR NF	France	Steel
A128 Grade A	ASTM	USA	Casting

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