

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		
Silicon	Si %	1.000 max.	Annealing or Normalising or Hardening + Tempering	
Manganese	Mn %	11.000 min.		
Phosphorus	Р%	0.070 max.		lardening + Tempering
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 %	-
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	-

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	
G X 120 Mn 12	UNI	Italy	Casting	
Z 120 M 12	AFNOR NF	France	Steel	
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

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