



Material - UNS J91119

Standard Specification for Austenitic Manganese Steel Casting

Group - Ferrous Austenitic Manganese Steel Alloy

Sub Group - UNS J91119 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 %	0.900 - 1.050	Annealing or Normalising 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
A128 Grade B-1	ASTM	USA	Casting
BW10	BS	British	Casting
Z 120 M 12	AFNOR NF	France	Steel
11OG13L	GOST	Russia	Casting
SCMnH 1	JIS	Japan	Casting
G X 120 Mn 12	UNI	Italy	Casting
J91109	UNS	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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