



Material - JIS SCMnH 1

Standard Specification for High Manganese Steel Castings - Austenitic

Group - Ferrous Austenitic Manganese Steel Alloy
Sub Group - JIS SCMnH 1 High Manganese Steel Castings - Austenitic
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	С%	0.900 - 1.300		
Manganese	Mn %	11.000 - 14.000		
Phosphorus	P %	0.100 max.	Annealing or Normalising or Hardening + Tempering	
Sulphur	S %	0.050 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	-
-	-	-	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	
Z 120 M 12	AFNOR NF	France	Steel	
G X 120 Mn 12	UNI	Italy	Casting	
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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.