

Material - BS EN 10213 GX12CrMoVNbN9-1

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10213 GX12CrMoVNbN9-1 Steel Castings for Pressure Purposes Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Plate, Tubes and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 - 0.140		
Silicon	Si %	0.200 - 0.500	Normalizing or Quenching or Solution Annealing	
Manganese	Mn %	0.300 - 0.800		
Phosphorus	Р%	0.020 max.		Solution Annealing
Sulphur	S %	0.010 max.		
Chromium	Cr %	8.000 - 9.500		
Molybdenum	Mo %	0.850 - 1.050		
Nickel	Ni %	0.400 max.		
Nitrogen	N %	0.030 - 0.070	Mechanical Properties	
Vanadium	V %	0.180 - 0.250	Tensile Strength in Mpa	460 min.
Niobium	Nb %	0.060 - 0.100	Yield Strength in Mpa	417 min.
Aluminium	AI %	0.020 max.	Elongation in %	-
Iron	Fe %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	27 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
GX12CrMoVNbN9-1	ONORM	Australia	Casting	
GX12CrMoVNbN9-1	NBN	Belgium	Casting	
GX12CrMoVNbN9-1	BDS	Bulgaria	Casting	
GX12CrMoVNbN9-1	CSN	Czech Republic	Casting	
GX12CrMoVNbN9-1	EN	European Union	Casting	
GX12CrMoVNbN9-1	SFS	Finland	Casting	
GX12CrMoVNbN9-1	DIN	Germany	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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