

Material: BS 10213 EN GX12CrMoVNbN9-1

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 10213 Steel Castings for Pressure Purposes

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 - 0.140	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.500		
Manganese	Mn %	0.300 - 0.800		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	8.000 - 9.500		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.850 - 1.050		
Nitrogen	N %	0.030 - 0.070		
Vanadium	V %	0.180 - 0.250		
Aluminium	Al %	0.020 max.	Mechanical Properties	
Niobium	Nb %	0.060 - 0.100	Tensile Strength in Mpa	600 - 750
Iron	Fe %	Balance	Yield Strength in Mpa	460 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	27 min. @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4955	EN	European Union	Casting
J8409	UNS	USA	Casting
1.4955	BS	British	Casting
1.4955	DIN	Germany	Casting
GX12CrMoVNbN9-1	UNI	#N/A	Casting
GX12CrMoVNbN9-1	DIN	Germany	Casting
GX12CrMoVNbN9-1	AFNOR NF	France	Casting

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