

Material: BS 10213 EN 1.4955

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
J8409	UNS	USA	Casting
1.4955	BS	British	Casting
1.4955	DIN	Germany	Casting
GX12CrMoVNbN9-1	EN	European Union	Casting
GX12CrMoVNbN9-1	UNI	Italy	Casting
GX12CrMoVNbN9-1	DIN	Germany	Casting
GX12CrMoVNbN9-1	AFNOR NF	France	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com