

Material: BDS 1GX 3 CrNi 13 4

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BDS 1GX 3 CrNi 13 4 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 %	0.050 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	12.000 - 13.500		
Molybdenum	Mo %	0.700 max.		
Nickel	Ni %	3.500 - 5.000		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.800 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	700 - 900
-	-	-	Yield Strength in Mpa	500 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	50 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 GX3CrNi13-4	BS	British	Plate, Tubes and Forging
GX3CrNi13-4	ISO	International	Casting
1.6982	ISO	International	Casting
1.6982	BDS	Bulgaria	Casting
1.6982	CSN	Czech Republic	Casting
GX 3 CrNi 13 4	CSN	Czech Republic	Casting
GX 3 CrNi 13 4	SFS	Finland	Casting

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