

# Material: BS EN 10213 GX2CrNiMo19-11-2

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS EN 10213 GX2CrNiMo19-11-2 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		
Carbon	C %	0.030 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	18.000 - 20.000
Molybdenum	Mo %	2.000 - 2.500
Nickel	Ni %	9.000 - 12.000
Copper	Cu %	0.500 max.
Nitrogen	N %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	220 min.
Yield Strength in Mpa	175 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	80 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4409	ISO	International	Casting
GX2CrNiMo19-11-2	ISO	International	Casting
SCS 16A	JIS	Japan	Casting
A 743 Grade CF-3M	ASTM	USA	Casting
A 743 J92800	ASTM	USA	Casting
A 744 Grade CF-8M	ASTM	USA	Casting
GX2CrNiMo19-11-2	MSZ	Hungary	Casting

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