

# Material: MSZ GX2CrNiMo19-11-2

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** MSZ GX2CrNiMo19-11-2 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 %	0.080 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	18.000 - 21.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	9.000 - 13.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 - 640
-	-	-	Yield Strength in Mpa	195 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	-
-	-	-	Impact in Joule	80 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX2CrNiMo19-11-2	BS	British	Plate, Tubes and Forging
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

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