

Material: PN 1.4517

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: PN 1.4517 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	24.500 - 26.500
Molybdenum	Mo %	2.500 - 3.500
Nickel	Ni %	5.000 - 7.000
Copper	Cu %	2.750 - 3.500
Nitrogen	N %	0.120 - 0.220
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	650 - 850
Yield Strength in Mpa	480 min.
Elongation in %	22 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
GX2CrNiMoCuN25-6-3-3	BS	British	Plate, Tubes and Forging
GX2CrNiMoCuN25-6-3-3	ISO	International	Casting
1.4517	ISO	International	Casting
GX2CrNiMoCuN25-6-3-3	SS	Sweden	Casting
1.4517	SS	Sweden	Casting
GX2CrNiMoCuN25-6-3-3	PN	Poland	Casting
1.4517	EN	European Union	Casting

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