

Material: BS 10213 EN 1.4417

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 %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	6.000 - 8.500		
Molybdenum	Mo %	3.000 - 4.000		
Copper	Cu %	1.000 max.		
Nitrogen	N %	0.150 - 0.250		
Tungsten	W %	1.000 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

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	35 min. @ -70°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4417	BS	British	Casting
1.4417	DIN	Germany	Casting
GX2CrNiMoN25-7-3	UNS	USA	Casting
GX2CrNiMoN25-7-3	DIN	Germany	Casting
GX2CrNiMoN25-7-3	BS	British	Casting
GX2CrNiMoN25-7-3	EN	European Union	Casting
GX2CrNiMoN25-7-3	AFNOR NF	France	Casting

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