

Material: BDS GX4CrNiMo16-5-1

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BDS GX4CrNiMo16-5-1 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 %	0.060 max.
Silicon	Si %	0.800 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	15.000 - 17.000
Molybdenum	Mo %	0.700 - 1.500
Nickel	Ni %	4.000 - 6.000
Copper	Cu %	0.300 max.
Vanadium	V %	0.080 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	760 - 960
Yield Strength in Mpa	540 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX4CrNiMo16-5-1	BS	British	Plate, Tubes and Forging
1.4405	ISO	International	Casting
GX4CrNiMo16-5-1	ISO	International	Casting
GX4CrNiMo16-5-1	ONORM	Australia	Casting
GX4CrNiMo16-5-1	NBN	Belgium	Casting
GX4CrNiMo16-5-1	CSN	Czech Republic	Casting
GX4CrNiMo16-5-1	EN	European Union	Casting

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