

# Material: BDS 1.4458

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BDS 1.4458 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 %	2.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	19.000 - 22.000
Molybdenum	Mo %	2.000 - 2.500
Nickel	Ni %	26.000 - 30.000
Copper	Cu %	2.000 max.
Nitrogen	N %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	430 - 630
Yield Strength in Mpa	190 min.
Elongation in %	30 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
GX2NiCrMo28-20-2	BS	British	Plate, Tubes and Forging
GX2NiCrMo28-20-2	ISO	International	Casting
1.4458	ISO	International	Casting
GX2NiCrMo28-20-2	ONORM	Australia	Casting
1.4458	ONORM	Australia	Casting
GX2NiCrMo28-20-2	BDS	Bulgaria	Casting
1.4458	NBN	Belgium	Casting

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