

## 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			Heat Treatment	
Carbon	C %	0.030 max.	Normalizing or Quenching or Solution Annealing	
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	<b>Mechanical Properties</b> 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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