

## Material: BDS G 9 Ni 10

### Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BDS G 9 Ni 10 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 %	0.060 - 0.120	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Nickel	Ni %	2.000 - 3.000		
Molybdenum	Mo %	0.200 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 480 - 630 Yield Strength in Mpa 280 min. Elongation in % 24 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G9Ni10	BS	British	Plate, Tubes and Forging
A 352 Grade LC2	ASTM	USA	Casting
A 352 J22500	ASTM	USA	Casting
G 9 Ni 10	NBN	Belgium	Casting
G 9 Ni 10	CSN	Czech Republic	Casting
G 9 Ni 10	EN	European Union	Casting
G 9 Ni 10	SFS	Finland	Casting

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