GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - CSN 1.7182

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - CSN 1.7182 Mild Steel Alloys Bar and Rod

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Bar and Rod

Chemical Composition		
Carbon	C %	0.240 - 0.300
Silicon	Si %	0.400 max.
Manganese	Mn %	1.100 - 1.140
Phosphorus	P %	0.025 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.300 - 0.600
Boron	B %	0.0008 - 0.0050
Copper	Cu %	0.400 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	580 min.
Yield Strength in Mpa	460 min.
Elongation in %	14 min.
Reduction of Area in %	55 min.
Hardness in HRC	32 - 89
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
27MnCrB5-2	EN	European Union	Bar and Rod
1.7182	EN	European Union	Bar and Rod
27MnCrB5-2	ISO	International	Bar and Rod
1.7182	DIN	Germany	Bar and Rod
27MnCrB5-2	DIN	Germany	Bar and Rod
1.7182	SFS	Finland	Bar and Rod
27MnCrB5-2	SFS	Finland	Bar and Rod

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com