

Material: EN 10083-3 27MnCrB5-2

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10083-3 27MnCrB5-2 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
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	800 - 100
Yield Strength in Mpa	700 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	As Per HT
Impact in Joule	65 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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
1.7182	CSN	Czech Republic	Bar and Rod

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