

Material: CSN 1.5531

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: CSN 1.5531 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 %	0.270 - 0.330
Silicon	Si %	0.400 max.
Manganese	Mn %	1.150 - 1.450
Phosphorus	P %	0.025 max.
Sulphur	S %	0.035 max.
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 - 1150
Yield Strength in Mpa	650 min.
Elongation in %	13 min.
Reduction of Area in %	50 min.
Hardness in HRC	40 max.
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
30MnB5	EN	European Union	Bar and Rod
1.5531	EN	European Union	Bar and Rod
30MnB5	ISO	International	Bar and Rod
1.5531	DIN	Germany	Bar and Rod
30MnB5	DIN	Germany	Bar and Rod
1.5531	BDS	Bulgaria	Bar and Rod
30MnB5	BDS	Bulgaria	Bar and Rod

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