

Material: EN 10083-3 46Cr2

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10083-3 46Cr2 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 %	0.420 - 0.500
Silicon	Si %	0.400 max.
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.025 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.400 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	650 - 800
Yield Strength in Mpa	400 min.
Elongation in %	15 - 45
Reduction of Area in %	-
Hardness in BHN	As Per HT
Impact in Joule	35 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7006	EN	European Union	Bar and Rod
46 Cr 2 E	ISO	International	Bar and Rod
46 Cr 2 E	JIS	Japan	Bar and Rod
1.7025	AFNOR NF	France	Bar and Rod
46 CrS 2	AFNOR NF	France	Bar and Rod
1.7025	BS	British	Bar and Rod
46 CrS 2	BS	British	Bar and Rod

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