



## 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			Heat Treatment	
Carbon	C %	0.420 - 0.500	As Raw or Annealing or Normalizing or Hardening and Tempering	
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		
-	-	-	<b>Mechanical Properties</b> 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	
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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

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

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