



## Material - EN 10083-3 1.7037

### Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - EN 10083-3 1.7037 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 %	0.300 - 0.370	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 - 0.040		
Chromium	Cr %	0.900 - 1.200		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      700 - 850 Yield Strength in Mpa      460 min. Elongation in %      15 - 45 Reduction of Area in %      - Hardness in BHN      As Per HT Impact in Joule      40 J @ RT	
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
34CrS4	EN	European Union	Bar and Rod
34Cr4	EN	European Union	Bar and Rod
1.7033	EN	European Union	Bar and Rod
34 Cr 4 E	ISO	International	Bar and Rod
34 Cr 4 E	JIS	Japan	Bar and Rod
1.7037	BDS	Bulgaria	Bar and Rod
34CrS4	BDS	Bulgaria	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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