

Material: EN 10083-3 41Cr4

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10083-3 41Cr4 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 %	0.380 - 0.450	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 %	0.035 max.		
Chromium	Cr %	0.900 - 1.200		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 800 - 950 Yield Strength in Mpa 560 min. Elongation in % 14 - 40 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
1.7035	EN	European Union	Bar and Rod
41CrS4	EN	European Union	Bar and Rod
1.7039	EN	European Union	Bar and Rod
Cr 3 Z	MSZ	Hungary	Bar and Rod
41 Cr 4 E	ISO	International	Bar and Rod
41 Cr 4 E	JIS	Japan	Bar and Rod
F.1202	UNE	Spain	Bar and Rod

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