

Material: BS 1.7025

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: BS 1.7025 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 %	0.035 max.		
Sulphur	S %	0.020 - 0.040		
Chromium	Cr %	0.400 - 0.600		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 650 - 1100 Yield Strength in Mpa 400 min. Elongation in % 12 min. Reduction of Area in % 35 min. Hardness in BHN 255 max. Impact in Joule 30 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
46Cr2	EN	European Union	Bar and Rod
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
46 CrS 2	BS	British	Bar and Rod

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