



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS 46 CrS 2

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - BS 46 CrS 2 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
-	-	-				
-	-	-				

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
1.7025	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

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