

Material: BS 970 EN8D

Standard Specification For Worught Steel For Mechanical and Allied Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 970 EN8D Worught Steel For Mechanical and Allied Engineering Purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Rod, Bar and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.400 - 0.450	As-Raw or Normalizing or Annealing or Hardening & Tempering	
Silicon	Si %	0.100 - 0.400		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	280 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	152 - 207
-	-	-	Impact in Joule	16 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C45	EN	European Union	Rod, Bar and Forging
1040	SAE	USA	Rod, Bar and Forging
1040	AS	Australia	Rod, Bar and Forging
C40	DIN	Germany	Rod, Bar and Forging
080M40	BS	British	Rod, Bar and Forging
S40C	JIS	Japan	Rod, Bar and Forging
G10400	UNS	USA	Plate, Strip, Sheet and Tube

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