

## BRIGHT MILD STEEL – M1045

### RELATED SPECIFICATIONS:

Australia	As 1443 – 2004 1045
Germany	W.Nr 1.0503 C45
	W.Nr 1.1191 CK45
Great Britain	BS970 – Part 3 -1991 080A47
	BS970 – 1955 EN43B
USA	AISI C1045
	ASTM A29/A29M – 91 1045
	SAE 1045
	UNS G 10450
Japan	JIS G 4051 S45C

### DESCRIPTION:

1045 Bright Mild steel bar is a merchant grade plain carbon steel bar containing nominally 0.45% carbon supplied in the cold drawn or turned & polished condition. Bright round bar up to 63.5mm dia is cold drawn. Bright round bars 63.5mm – 100mm diameter are cold drawn or smooth turned & polished. Over 100mm are all smooth turned and polished. All square and hex bars are cold drawn. Typical tensile strength range min. 600 – 690 Mpa.

### APPLICATIONS:

Can be flame or induction hardened. Used throughout all industries because of its high tensile strength and wear resistant properties. Suitable for pins, bolts, shafts etc.

### CHEMICAL ANALYSIS:

	C %	Si %	Mn %	P %	S %
Min.	0.43	0.10	0.60	-	-
Max.	0.50	0.35	0.90	0.04	0.04

### SIZES AVAILABLE:

Round: 4.76mm – 152.40mm  
 Hexagon (AF): 19.05mm – 50.8mm  
 Square: 19.05 – 50mm

### COLOUR CODE: DARK GREEN END

