

CARBON STEEL - 1045

RELATED SPECIFICATIONS:

Australia	AS 1442-2007 1045
Germany	W.Nr 1.1191 CK45
Great Britain	BS970 – Part 3 – 1991 080A47 BS970 Part 1 – 1972 080M46
USA	AISI C1045 ASTM A29/A29M – 91 1045 SAE 1045 UNS G 10450
Japan	JIS G 4051 S45C

DESCRIPTION:

1045 is a medium carbon, fully killed steel supplied in the as rolled condition or (optional) normalised. The ultimate tensile strength is in the range 550 - 700 Mpa.

APPLICATIONS:

The steel machines readily and is ideal for shafts, axles, sprockets and other machine parts requiring better strength than 1020 mild steel. The steel is well suited to flame or induction hardening. Surface values of 54 - 60 Rockwell 'C' can be expected.

TYPICAL CHEMICAL ANALYSIS:

C %	Si %	Mn %	P %	S %
0.45	0.25	0.75	0.03	0.035

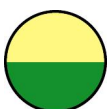
SIZES AVAILABLE: Rounds – Hot Rolled, forged, forged rough machined, hot rolled squares

Round: (mm)

45	50	56	60	65	70	75	80	90	100	110	120	130	140	150
160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
310	320	330	340	360	380	400	430	460	500	550	580	610	660	710

Other sizes available upon request

COLOUR CODE: CUSTARD YELLOW AND GREEN END



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