

TECHNICAL GUIDE

070M20 / EN3B

Steel Description




070M20 / EN3B is a popular low carbon mild steel that is supplied in the bright drawn or turned bar condition. It is used as a GENERAL COMMERCIAL QUALITY (GCQ) steel with good machinability, but poor hardenability and is used in a variety of applications. 070M20 / EN3B has good weldability characteristics and can also be case hardened to improve wear resistance.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN3B	070M20		Bright drawn / turned mild steel

CHEMICAL ANALYSIS	
Car	0.16/0.24
Sil	-
Mang	0.50/0.90
Phos	0.05 max
Sul	0.05 max

INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH BS 970:1991	070M20
BRITISH BS 970:1955	EN3B
GERMAN DIN	CK20
FRENCH AFNOR	XC18
SWEDISH SS	I370
AMERICAN SAE	1021
EUROPEAN STEEL NO.	1.1151
EUROPEAN STEEL NAME	C22E
EUROPEAN STANDARD	EN10083-1

QUICK VIEW SYSTEM	
MACHINEABILITY	100
WELDABILITY	Good
HARDENABILITY	Poor
SELECTION GUIDE AND USAGE EXAMPLES	General purpose engineering

SIZE RANGE SUMMARY			
	Rounds	IMP	1/8" - 12" dia
		MM	3mm - 400mm dia
	Flats	IMP	1/4"x3/16" - 14"x1/2"
		MM	6mm x 3mm - 200mm x 25mm
	Squares	IMP	3/8" - 6" squ
		MM	6mm - 100mm squ

SEE STOCK RANGE FOR SPECIFIC SIZES.