

070M20/EN3B

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	XCI8										
SWEDISH SS	1370										
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										

							SIZES							
Size	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	I	1.1/16
	1.1/8	1.1/4	1.3/8	1.1/2	1.5/8	1.3/4	1.7/8	2	2.1/8	2.1/4	2.3/8	2.1/2	2.5/8	2.3/4
(ins. dia)	2.7/8	3	3.1/4	3.1/2	3.3/4	4	4.1/4	4.1/2	4.3/4	5	5.1/4	5.1/2	5.3/4	6
	6.1/4	6.1/2	6.3/4	7	7.1/2	8	8.1/2	9	9.1/2	10	10.1/2	П	12	
	3.00	4.00	5.00	6.00	8.00	10.00	12.00	15.00	16.00	17.00	18.00	19.00	20.00	22.00
Size	24.00	25.00	27.00	30.00	32.00	35.00	36.00	38.00	40.00	45.00	50.00	54.00	55.00	60.00
(mm. dia)	65.00	70.00	75.00	80.00	85.00	90.00	95.00	100.00	110.00	180.00	240.00	320.00	330.00	350.00
	360.00	380.00	390.00											

			SIZES				
	1/4 × 3/16	1/2 × 1/8	1/2 × 1/4	1/2 × 3/8	5/8 × 1/8	5/8 x 1/4	
	3/4 × 1/8	3/4 × 3/16	3/4 × 1/4	3/4 × 3/8	3/4 × 1/2	7/8 x 1/8	
	7/8 × 1/4	I × I/8	I × 3/16	I × I/4	I × 3/8	I x I/2	
	I × 5/8	I × 3/4	1.1/4 × 1/8	1.1/4 × 3/16	1.1/4 × 1/4	1.1/4 × 3/4	
	1.1/4 x 1	1.1/2 × 1/8	1.1/2 × 3/16	1.1/2 × 1/4	1.1/2 × 5/16	$1.1/2 \times 3/8$ $2 \times 1/8$ $2 \times 3/4$ $2.1/2 \times 1/4$	
	1.1/2 × 1/2	1.1/2 × 5/8	1.1/2 × 3/4	1.1/2 x 1	1.1/2 × 1.1/4		
	2 × 3/16	2 × 1/4	2 × 3/8	2 × 1/2	2 × 5/8		
	2 x I	2 × 1.1/4	2 × 1.1/2	2.1/2 × 1/8	2.1/2 × 3/16		
	2.1/2 × 5/16	2.1/2 × 3/8	2.1/2 × 1/2	2.1/2 × 5/8	2.1/2 × 3/4	2.1/2 x 1	
	2.1/2 × 1.1/2	2.1/2 × 2	3 × 1/8	3 × 3/16	3 × 1/4	3 × 5/16	
	3 × 3/8	3 × 1/2	3 × 5/8	3 × 3/4	3 × I	3 × 1.1/2	
Size (ins.)	3 × 2	3 × 2.1/2	3.1/2 × 3/4	3.1/2 × 1.1/2	4 × 1/8	4 × 3/16	
	4 × 1/4	4 × 3/8	4 × 1/2	4 × 5/8	4 × 3/4	4 x I	
	4 × 1.1/2	4 × 2	4 × 2.1/2	4 × 3	4.1/2 × 1/2	5 x 1/4	
	5 × 5/16	5 × 3/8	5 × 1/2	5 × 5/8	5 × 3/4	5 x I	
	5 × 1.1/2	5 × 2	5 × 3	6 × 1/8	6 × 3/16	6 x 1/4	
	6 × 3/8	6 × 1/2	6 × 5/8	6 × 3/4	6 × I	6 x 1.1/2	
	6 × 2	6 × 3	6 × 4	7 × 1/4	7 × 1/2	7 x I	
	8 × 1/4	8 × 3/8	8 × 1/2	8 × 5/8	8 × 3/4	8 x I	
	8 × 1.1/2	8 × 2	9 × 1/2	9 × 3/4	9 x I	10 x 1/4	
	10 x 3/8	10 x 1/2	10 x 1/2	10 × 5/8	10 × 3/4	10 x I	
	10 x 1.1/2	10 x 2	12 x 1/4	12 x 3/8	12 x 1/2	12 × 5/8	
	12 × 3/4	12 x 1	14 x 1/2				

								SIZES								
	6 x 3		10 x 3		10 x	5	10 × 6	12	x 3	12 x 5	13	2 x 6	12 x 8		12 x 10	
	15 x 3	3	15 x 5		15 x	x 6 16 x 3		16	× 5	16 × 6	10	6 × 8	16 × 10		16 x 12	
	20 x 3	3	20 x 4		20 x	5	20 × 6	20	× 8	20 x 10	20	20 x I2 20		6 25 x 3		
	25 x 4	1	25 x 5		25 x	6	25 × 8	25	× 10	25 x 12	25	x 16	25 × 20		30 × 3	
	30 x 5	5	30 × 6		30 x	8	30 x 10	30	30 x 12 3		30	× 20	30 x 25		32 x 10	
	32 x I	2	32 x 16		32 x 20		32 x 25	32 x 25 35 x 10		35 x 12		x 16	35 × 20		35 × 25	
	35 x 3	0	40 x 1.25		40 × 3		40 x 5	40 × 5 40 × 6		40 × 8 40 × 10) x 10	40 × 12		40 x 16	
	40 x 2	0	40 × 25		40 × 30		45 × 6 45 × 8		× 8	45 x 10 4		45 x 12 45 x 16			45 × 20	
	45 x 2	5	45 x 30		45 × 40		50 x 3	50 x 3 50 x 5		50 × 6		0 × 8	50 × 10		50 x 12	
c : / \	50 x I	6	50 x 20		50 × 25		50 x 30	50 × 30 50 × 40		60 × 6 60 s		0 × 8	60 x 10		60 x 12	
Size (mm)	60 x I	6	60 x 20		60 × 25		60 x 30	30 60 x 40		65 × 6 65 × 10		x 10	65 x 12		65 x 16	
	65 x 2	0	65 x 25		70 × 6		70 x 8	0 × 8 70 × 10		70 x 12 70 x 16		70 × 20		70 × 25		
	70 x 3	0	70 × 40		70 × 50		75 x 1.5	75 × 6		75 x 8 75 x 10		x 10	75 x 12		75 × 16	
	75 x 2	0	75 x 25		80 × 6		80 x 8	80	× 10	80 x 12	80) x 16	80 × 20		80 × 25	
	80 x 3	0	80 x 40		80 × 50		80 x 60	90	x 6	90 x 10	90) x 12	90 x 16	,	90 × 20	
	90 x 2	5	90 × 30		90 × 40		90 x 50	100	0 × 6	100 x 8	10	0 x 10	100 x 12	2	100 x 16	
	100 x 2	20	100 x 25		100 x 30		100 x 40	100	100 x 50 I		110	0 × 20	125 x 6		125 x 10	
	125 x l	12	125 x 16		125 x 20		125 x 25	125 x 30		125 x 40	12.	5 × 50	150 x 10		150 x 12	
	150 x l	16	150 × 20		150 x 25		160 x 6	160	0 × 8	160 × 10 160 ×		0 x 12	2 160 x 16		160 x 20	
	160 x 2	25	160 × 30		160 × 50		200 x 10	0 200 x 12		200 x 20 200 x 25		0 × 25				
Simo	3/16	1/4	J 3/8		1/2	5/8	3/4	7/8	ı	1.1/4	1.1/2	1.3/4	2	2.1/4	1 2.1/2	
Size (ins. sq)	3	3.1/	2 4		4.1/2	5	6									
Size	6	8	10		12	16	18	20	25	30	32	35	40	45	50	
(mm sq)	60	70	80		90	100										