

080A15/EN32B

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN32B	080A15		Bright drawn / turned mild steel

CHEMICAL ANALYSIS									
Car	0.13 / 0.18								
Sil	0.10 / 0.40								
Mang	0.70 / 0.90								
Phos	0.05 max								
Sul	0.05 max								

INTERNATIONAL SPECIFICATION COMPARISON										
BRITISH BS 970:1991	080A15									
BRITISH BS 970:1955	EN32B									
GERMAN DIN	CK15									
FRENCH AFNOR										
SWEDISH SS	1370									
AMERICAN SAE	1016									
EUROPEAN STEEL NO.	1.0407									
EUROPEAN STEEL NAME	CI6									
EUROPEAN STANDARD	EN10277-2									

QUICK VIEW SYSTEM									
MACHINEABILITY	100								
WELDABILITY	Good								
HARDENABILITY	Poor								
SELECTION GUIDE AND USAGE EXAMPLES	General purpose engineering suitable for case hardening and welding								

							SIZES							
Size (ins. dia)	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
	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	
Size (mm. dia)	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
	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
	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 × 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 × 3/8		
	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 x 1/8		
	2 × 3/16	2 × 1/4	2 × 3/8	2 × 1/2	2 × 5/8	2 x 3/4		
	2 x I	2 × 1.1/4	2 × 1.1/2	2.1/2 × 1/8	2.1/2 × 3/16	2.1/2 × 1/4		
	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 x 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 × 3		10 × 3	10 x	5	10 × 6	12	x 3	12 x 5	1:	2 × 6	12 x 8		12 x 10	
	15 x 3	3	15 × 5	15 x	6	16 × 3	16 x 5		16 x 6	1	6 x 8	16 x 10		16 x 12	
	20 x 3	3	20 × 4	20 ×	5	20 × 6	20 x 8		20 x 10	20) x 12	20 x 16		25 x 3	
	25 x 4	1	25 × 5	25 ×	6	25 × 8	25 x 10		25 x 12	25	5 x 16	25 × 20		30 x 3	
	30 x 5	5	30 × 6	30 x	8	30 × 10	30 x 12		30 x 16	30) x 20	30 × 25		32 × 10	
	32 x 12		32 × 16	32 x	20	32 × 25	35 x 10		35 x 12	35	5 x 16	35 × 20		35 x 25	
	35 × 30		40 × 1.25	40 x	: 3	40 x 5	40	40 × 6		40 x 8 40		0 × 10 40 × 12		40 × 16	
	40 × 20		40 × 25	40 x	30	45 x 6	45	45 x 8		45	5 x 12	45 x 16	5	45 × 20	
	45 x 2	5	45 × 30	45 × 40		50 × 3	50	x 5	50 × 6	5	0 × 8	50 x 10	50 x 12		
c· / \	50 × 16		50 × 20	50 x	25	50 × 30	50	× 40	60 × 6	6	0 × 8	60 x 10	0 60 x 12		
Size (mm)	60 x 16		60 × 20	60 x	25	60 x 30	60 :	60 x 40		65	5 x 10	65 × 12		65 × 16	
	65 × 20		65 × 25	70 × 6		70 × 8	70 x 10		70 x 12	70) x 16	70 × 20		70 × 25	
	70 × 30		70 × 40	70 × 50		75 x 1.5	75 × 6		75 x 8	75	5 x 10	75 x 12		75 x 16	
	75 × 20		75 × 25	80 x 6		80 x 8	80 :	× 10	80 x 12	80) x 16	80 × 20		80 × 25	
	80 x 30		80 × 40	80 × 50		80 x 60	90	x 6	90 x 10	90) x 12	90 x 16		90 × 20	
	90 x 25		90 × 30	90 × 40		90 × 50	100) x 6	100 x 8	10	0 x 10	100 x 12		100 x 16	
	100 × 20		100 × 25	100 × 30		100 × 40	100	× 50	110 x 10	11	0 × 20	0 x 20 125 x 6		125 x 10	
	125 x 12		125 × 16	125 × 20		125 × 25	125 x 30		125 x 40	12	5 × 50	150 x 10		150 x 12	
	150 × 16		150 × 20	150 × 25		160 × 6	160 x 8		160 x 10	16	0 x 12	160 x 16		160 × 20	
	160 x 2	25	160 × 30	160 x 50		200 x 10	200	200 x 12		200 x 20 200					
a.	3/16	1/4	3/8	1/2	5/8	3/4	7/8	ı	1.1/4	1.1/2	1.3/4	2	2.1/-	4 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										
	16 x 1	6 × 3	20 x 2	0 × 3	25	× 25 × 3	25 😼	25 × 5	20. 20. 2		22 22		2.7	2 × 32 × 5	
Size (mm)										30 x 30 x 3		32 x 32 x 4			
	32 × 32 × 6		70 % 7	40 × 40 × 3		40 × 40 × 4		40 × 40 × 5		40 × 40 × 6		50 x 50 x 6			