

KEY STEEL

EN6A

Typical Analysis (Ave. values %)	C	Si	Mn	
	0.40	0.20	0.70	
NEAREST STANDARD	DIN	JIS	BS	AISI
	1.1186 Ck40	S40C	EN6A	1040

DESCRIPTION	Square edge carbon steel designed to be a sacrificial key in an emergency. Supplied either uncoated or cadmium plated.
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MECHANICAL PROPERTIES	Cold Drawn size mm	Tensile Strength MPa	Yield Strength MPa	Elong %	Hardness HB
	< 16	690	540	8	207
	> 16-38	650	510	8	195
	> 38	640	500	9	190

STOCK RANGE			
Metric		Imperial	
Size	Tolerance	Size	Tolerance
8 x 7 mm Flat	-0.035 x 0.09	1/4" x 3/16" Flat	0.250 /0.253 x 0.188/0.190
10 x 8 mm Flat	-0.035 x 0.09	5/16" x 1/4" Flat	0.312 /0.315 x 0.250/0.253
12 x 8 mm Flat	-0.043 x 0.09	3/8" x 1/4" Flat	0.375 /0.377 x 0.250/0.253
14 x 9 mm Flat	-0.043 x 0.09	7/16" x 5/16" Flat	0.438 /0.440 x 0.312/0.314
16 x 10 mm Flat	-0.043 x 0.09	1/2" x 3/8" Flat	0.500 /0.502 x 0.375/0.378
18 x 11 mm Flat	-0.043 x 0.11	5/8" x 7/16" Flat	0.652 /0.627 x 0.438/0.441
20 x 12 mm Flat	-0.052 x 0.11	3/4" x 1/2" Flat	0.750 /0.752 x 0.500/0.503
22 x 14 mm Flat	-0.052 x 0.11	7/8" x 5/8" Flat	0.875 /0.877 x 0.652/0.629
25 x 14 mm Flat	-0.052 x 0.11	1" x 3/4" Flat	1.000 /1.003 x 0.750/0.754
28 x 16 mm Flat	-0.052 x 0.11	1-1/4" x 7/8" Flat	1.250 /1.253 x 0.875/0.879
32 x 18 mm Flat	-0.052 x 0.11	1-1/2" x 1" Flat	1.500 /1.504 x 1.000/1.006
36 x 20 mm Flat	-0.052 x 0.13		
40 x 22 mm Flat	-0.052 x 0.13		
45 x 25 mm Flat	-0.052 x 0.13		

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50 x 28 mm Flat	-0.052 x 0.13		
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STOCK RANGE cont.			
Metric		Imperial	
Size	Tolerance	Size	Tolerance
4 mm Square	+/-0.030	1/8" Square	0.1225/0.127
5 mm Square	+/-0.030	3/16" Square	0.188/0.190
6 mm Square	+/-0.030	1/4" Square	0.250/0.252
8 mm Square	+0/-0.036	5/16" Square	0.312/0.314
10 mm Square	+0/-0.036	3/8" Square	0.375/0.377
12 mm Square	+0/-0.043	7/16" Square	0.438/0.440
14 mm Square	+0/-0.052	1/2" Square	0.500/0.502
16 mm Square	+0/-0.052	9/16" Square	0.563/0.565
18 mm Square	+0/-0.052	5/8" Square	0.625/0.627
20 mm Square	+0/-0.052	3/4" Square	0.750/0.752
		7/8" Square	0.875/0.877
		1" Square	1.000/1.003
		1-1/4" Square	1.250/1.253

Notes

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