

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 | | |
| 50 x 28 mm Flat | -0.052 x 0.13 | | |

| 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 |

LOCATIONS

Bohler Uddeholm Australia Pty Ltd ABN 15000013052

| | | | | |
|------------|-------------------------------|------|-------------------|--------------------|
| Sydney | 129-135 McCredie Rd Guildford | 2161 | Ph (02) 8724 5554 | Fax (02) 8724 5555 |
| Newcastle | 3 Pavilion Pl Cardiff | 2285 | Ph (02) 4954 6611 | Fax (02) 4956 5773 |
| Albury | 1 Eames St Albury | 2640 | Ph (02) 6041 3399 | Fax (02) 6041 1820 |
| Wollongong | 40 Doyle Ave Unanderra | 2526 | Ph (02) 4272 6544 | Fax (02) 4272 7563 |
| Marayong | 1/21 Binney Rd Marayong | 2148 | Ph (02) 9831 4431 | Fax (02) 9671 1682 |
| Melbourne | 282-290 Greens Rd Dandenong | 3175 | Ph (03) 9767 5554 | Fax (03) 9767 5555 |
| Bayswater | 4 Amsted Rd Bayswater | 3153 | Ph (03) 9739 8022 | Fax (03) 9739 8033 |
| Adelaide | 1 Williams Cir Pooraka | 5095 | Ph (08) 8368 4554 | Fax (08) 8368 4555 |
| Brisbane | 12-18 Limestone St Darra | 4076 | Ph (07) 3712 9554 | Fax (07) 3712 9555 |
| Townsville | 9-11 Caldwell St Garbutt | 4814 | Ph (07) 4479 4800 | Fax (07) 4725 1316 |
| Perth | 29-33 Gauge Cir Canningvale | 6155 | Ph (08) 9455 8672 | Fax (08) 9455 8673 |
| Kewdale | 5 Beete St Welshpool | 6106 | Ph (08) 9350 9582 | Fax (08) 9350 9683 |
| Launceston | 20 Murphy St Invermay | 7248 | Ph (03) 6334 3542 | Fax (03) 6331 4001 |

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Notes