

S45C

機械構造用炭素鋼鋼管

Carbon Steel Tubes for Machine Structural Purposes

●種類 | S45C

●適用範囲 | 焼入れすることによって、強度が増すので、強度の必要な場所に使用される。

■ 化学成分

| 記号 | 化 学 成 分 (%) | | | | |
|------|-------------|-----------|-----------|---------|---------|
| | C | Si | Mn | P | S |
| S45C | 0.42~0.48 | 0.15~0.35 | 0.60~0.90 | 0.030以下 | 0.035以下 |

■ 外径、厚さの許容差

| 外径の許容差 | | 厚さの許容差 | |
|--------|--------|--------|------------------|
| 50mm未満 | ±0.5mm | 4mm未満 | +0.6mm -0.5mm |
| 50mm以上 | ±1% | 4mm以上 | +15% -12.5% |

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| サイズ 外径×厚さ(mm) | 長さ (mm) | 単重 (kg/m) | 常時在庫 |
|------------------|------------|--------------|------|
| 34.0 × 6.4 | 6,000 | 4.36 | ● |
| 38.1 × 6.0 | 〃 | 4.75 | ● |
| × 8.0 | 〃 | 5.94 | ● |
| 45.0 × 6.0 | 〃 | 5.77 | ● |
| 48.6 × 8.0 | 〃 | 8.01 | ● |
| × 9.0 | 〃 | 8.79 | ● |
| × 10.0 | 〃 | 9.52 | ● |
| × 12.0 | 〃 | 10.8 | ● |
| 50.8 × 6.0 | 〃 | 6.63 | ● |
| 54.0 × 8.0 | 〃 | 9.07 | ● |
| × 10.0 | 〃 | 10.9 | ● |
| × 12.0 | 〃 | 12.4 | ● |
| 57.0 × 8.0 | 〃 | 9.67 | ● |
| × 12.0 | 〃 | 13.3 | ● |
| 60.5 × 8.0 | 〃 | 10.4 | ● |
| × 10.0 | 〃 | 12.5 | ● |
| × 12.0 | 〃 | 14.4 | ● |
| 63.5 × 8.0 | 〃 | 10.9 | ● |
| × 10.0 | 〃 | 13.2 | ● |
| × 12.0 | 〃 | 15.2 | ● |
| × 15.0 | 〃 | 17.9 | ● |
| 65.0 × 10.0 | 〃 | 13.6 | ● |
| × 12.0 | 〃 | 15.7 | ● |
| × 15.0 | 〃 | 18.5 | ● |
| 67.0 × 7.0 | 〃 | 10.4 | ● |
| × 9.5 | 〃 | 13.5 | ● |
| 70.0 × 8.0 | 〃 | 12.2 | ● |
| × 10.0 | 〃 | 14.8 | ● |
| × 12.0 | 〃 | 17.2 | ● |
| × 13.0 | 〃 | 18.3 | ● |
| × 15.0 | 〃 | 20.3 | ● |
| × 18.0 | 〃 | 23.1 | ● |
| × 20.0 | 〃 | 24.7 | ● |
| 73.0 × 8.0 | 〃 | 12.8 | ● |
| × 10.0 | 〃 | 15.5 | ● |
| × 12.0 | 〃 | 18.1 | ● |
| × 15.0 | 〃 | 21.5 | ● |
| 76.3 × 10.0 | 〃 | 16.3 | ● |

| サイズ 外径×厚さ(mm) | 長さ (mm) | 単重 (kg/m) | 常時在庫 |
|------------------|------------|--------------|------|
| 76.3 × 15.0 | 6,000 | 22.7 | ● |
| × 18.0 | 〃 | 25.9 | ● |
| 77.0 × 9.5 | 〃 | 15.8 | ● |
| 80.0 × 8.0 | 〃 | 14.2 | ● |
| × 10.0 | 〃 | 17.3 | ● |
| × 12.0 | 〃 | 20.1 | ● |
| × 15.0 | 〃 | 24.0 | ● |
| × 18.0 | 〃 | 27.5 | ● |
| × 20.0 | 〃 | 29.6 | ● |
| 82.6 × 10.0 | 〃 | 17.9 | ● |
| × 12.0 | 〃 | 20.9 | ● |
| × 15.0 | 〃 | 25.0 | ● |
| × 18.0 | 〃 | 28.7 | ● |
| 85.0 × 10.0 | 〃 | 18.5 | ● |
| × 12.0 | 〃 | 21.6 | ● |
| × 15.0 | 〃 | 25.9 | ● |
| × 20.0 | 〃 | 32.1 | ● |
| 87.0 × 9.5 | 〃 | 18.2 | ● |
| 89.1 × 8.0 | 〃 | 16.0 | ● |
| × 10.0 | 〃 | 19.5 | ● |
| × 12.0 | 〃 | 22.8 | ● |
| × 15.0 | 〃 | 27.4 | ● |
| × 18.0 | 〃 | 31.6 | ● |
| × 20.0 | 〃 | 34.1 | ● |
| 95.0 × 10.0 | 〃 | 21.0 | ● |
| × 12.0 | 〃 | 24.6 | ● |
| × 15.0 | 〃 | 29.6 | ● |
| × 18.0 | 〃 | 34.2 | ● |
| × 20.0 | 〃 | 37.0 | ● |
| × 25.0 | 〃 | 43.2 | ● |
| 97.0 × 9.5 | 〃 | 20.5 | ● |
| × 15.0 | 〃 | 30.3 | ● |
| 101.6 × 10.0 | 〃 | 22.6 | ● |
| × 12.0 | 〃 | 26.5 | ● |
| × 15.0 | 〃 | 32.0 | ● |
| × 18.0 | 〃 | 37.1 | ● |
| × 20.0 | 〃 | 40.2 | ● |
| × 25.0 | 〃 | 47.2 | ● |

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| サイズ 外径×厚さ(mm) | 長さ (mm) | 単重 (kg/m) | 常時在庫 |
|------------------|------------|--------------|------|
| 101.6 × 30.0 | 6,000 | 53.0 | ● |
| 105.0 × 10.0 | 〃 | 23.4 | ● |
| × 15.0 | 〃 | 33.3 | ● |
| × 20.0 | 〃 | 41.9 | ● |
| 107.0 × 9.5 | 〃 | 22.8 | ● |
| 110.0 × 15.0 | 〃 | 35.1 | ● |
| × 20.0 | 〃 | 44.4 | ● |
| × 25.0 | 〃 | 52.4 | ● |
| 114.3 × 10.0 | 〃 | 25.7 | ● |
| × 12.0 | 〃 | 30.3 | ● |
| × 15.0 | 〃 | 36.7 | ● |
| × 20.0 | 〃 | 46.5 | ● |
| × 30.0 | 〃 | 62.4 | ● |
| 117.0 × 15.0 | 〃 | 37.7 | ● |
| 120.0 × 12.0 | 〃 | 32.0 | ● |
| × 15.0 | 〃 | 38.8 | ● |
| × 18.0 | 〃 | 45.3 | ● |
| × 20.0 | 〃 | 49.3 | ● |
| × 25.0 | 〃 | 58.6 | ● |
| × 30.0 | 〃 | 66.6 | ● |
| 123.0 × 12.5 | 〃 | 34.1 | ● |
| 127.0 × 10.0 | 〃 | 28.9 | ● |
| × 12.0 | 〃 | 34.0 | ● |
| × 15.0 | 〃 | 41.4 | ● |
| × 18.0 | 〃 | 48.4 | ● |
| × 20.0 | 〃 | 52.8 | ● |
| × 25.0 | 〃 | 62.9 | ● |
| × 30.0 | 〃 | 71.8 | ● |
| 130.0 × 15.0 | 〃 | 42.5 | ● |
| × 20.0 | 〃 | 54.3 | ● |
| × 25.0 | 〃 | 64.7 | ● |
| × 30.0 | 〃 | 74.0 | ● |
| 135.0 × 15.0 | 〃 | 44.4 | ● |
| × 20.0 | 〃 | 56.7 | ● |
| × 25.0 | 〃 | 67.8 | ● |
| × 30.0 | 〃 | 77.7 | ● |
| 139.8 × 12.0 | 〃 | 37.8 | ● |
| × 18.0 | 〃 | 54.1 | ● |

| サイズ 外径×厚さ(mm) | 長さ (mm) | 単重 (kg/m) | 常時在庫 |
|------------------|------------|--------------|------|
| 139.8 × 20.0 | 6,000 | 59.1 | ● |
| × 25.0 | 〃 | 70.8 | ● |
| × 30.0 | 〃 | 81.2 | ● |
| × 35.0 | 〃 | 90.5 | ● |
| 142.0 × 18.0 | 〃 | 55.0 | ● |
| 146.0 × 12.0 | 〃 | 39.7 | ● |
| × 20.0 | 〃 | 62.1 | ● |
| 152.4 × 15.0 | 〃 | 50.8 | ● |
| × 20.0 | 〃 | 65.3 | ● |
| × 25.0 | 〃 | 78.5 | ● |
| × 30.0 | 〃 | 90.6 | ● |
| × 35.0 | 〃 | 101 | ● |
| 159.0 × 15.0 | 〃 | 53.3 | ● |
| × 25.0 | 〃 | 82.6 | ● |
| × 30.0 | 〃 | 95.4 | ● |
| × 35.0 | 〃 | 107 | ● |
| 165.2 × 20.0 | 〃 | 71.6 | ● |
| × 25.0 | 〃 | 86.4 | ● |
| × 30.0 | 〃 | 100 | ● |
| × 35.0 | 〃 | 112 | ● |
| 168.3 × 30.0 | 〃 | 102 | ● |
| 177.8 × 20.0 | 〃 | 77.8 | ● |
| × 25.0 | 6,500 | 94.2 | ● |
| × 30.0 | 〃 | 109 | ● |
| × 35.0 | 〃 | 123 | ● |
| × 40.0 | 〃 | 136 | ● |
| 219.1 × 30.0 | 6,000 | 140 | ● |
| 318.5 × 20.0 | 〃 | 147 | ● |

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