

STK400  
STK490

# 一般構造用炭素鋼鋼管

Carbon steel tubes for general structure

**適用規格** JIS G 3444

**適用範囲** 鉄塔、足場、支柱、基礎ぐい、地すべり抑止ぐいなどの土木、建築の構造物に使用する炭素鋼鋼管

## 化学成分

| 種類の記号  | 化学成分 % |        |        |         |         |
|--------|--------|--------|--------|---------|---------|
|        | C      | Si     | Mn     | P       | S       |
| STK400 | 0.25以下 | —      | —      | 0.040以下 | 0.040以下 |
| STK490 | 0.18以下 | 0.55以下 | 1.65以下 | 0.035以下 | 0.035以下 |

## 機械的性質

| 種類の記号  | 引張強さ<br>N/mm <sup>2</sup> | 降伏点又は耐力<br>N/mm <sup>2</sup> | 溶接部引張強さ<br>N/mm <sup>2</sup> | へん平性                   |      | 曲げ性  |        |
|--------|---------------------------|------------------------------|------------------------------|------------------------|------|------|--------|
|        |                           |                              |                              | 平板間の距離 (H)<br>(Dは管の外径) | 曲げ角度 | 内側半径 |        |
|        |                           |                              |                              | 適用外径                   | 全外径  | 全外径  | 50mm以下 |
| STK400 | 400以上                     | 235以上                        | 400以上                        | 2/3D                   | 90°  | 6D   |        |
| STK490 | 490以上                     | 315以上                        | 490以上                        | 7/8D                   | 90°  | 6D   |        |

## 外径の許容差

| 区 分 | 外径     | 外径の許容差  |                                     |
|-----|--------|---------|-------------------------------------|
| 1号  | 50mm未満 | ±0.5mm  | 特に指定がない場合。<br>なお、熱間仕上継目無鋼管に適用する。    |
|     | 50mm以上 | ±1%     |                                     |
| 2号  | 50mm未満 | ±0.25mm | 特に指定がある場合。<br>ただし、熱間仕上継目無鋼管には適用しない。 |
|     | 50mm以上 | ±0.5%   |                                     |

## 厚さの許容差

| 区 分 | 継目無鋼管の場合 |        | 継目無鋼管以外の場合 |        | 適用区分  |
|-----|----------|--------|------------|--------|---|
|     | 厚さ       | 厚さの許容差 | 厚さ         | 厚さの許容差 |   |
| 1号  | 4mm未満    | +0.6mm | 4mm未満      | +0.6mm | 特に指定がない場合。<br>なお、熱間仕上<br>継目無鋼管に適用<br>する。    |
|     |          | -0.5mm |            | -0.5mm |   |
|     | 4mm以上    | +15%   | 4mm以上      | +15%   |   |
|     |          | -12.5% | 12mm未満     | -12.5% |   |
| 2号  | 3mm未満    | ±0.3mm | 3mm未満      | ±0.3mm | 特に指定がある場合。<br>ただし、熱間仕上<br>継目無鋼管には<br>適用しない。 |
|     |          |        |            |        |   |
|     | 3mm以上    | ±10%   | 3mm以上      | ±10%   |   |
|     |          |        | 12mm未満     | +10%   |   |
|     |          | 12mm以上 | -1.2mm     |        |   |

STK400 JIS G3444 一般構造用炭素鋼鋼管

| 規格      | 寸法       | 5.5M | 6M | 12M | M/重量  | 規格      | 寸法         | 5.5M       | 6M | 12M  | M/重量 |      |
|---------|----------|------|----|-----|-------|---------|------------|------------|----|------|------|------|
| STK400E | 21.7×1.9 | ○    | ○  |     | 0.928 | STK400E | 101.6× 3.2 | ○          | ○  | ○    | 7.76 |      |
|         | ×2.3     | ○    | ○  |     | 1.10  |         | × 4.2      |            | ○  | ○    | 10.1 |      |
|         | ×2.8     | ○    | ○  |     | 1.31  |         | × 5.7      |            | ○  | ○    | 13.5 |      |
|         |          |      |    |     |       |         | × 8.1      |            |    | ○    | 18.7 |      |
| STK400E | 27.2×1.9 | ○    | ○  |     | 1.19  | STK400E | 114.3× 3.5 | ○          | ○  | ○    | 9.56 |      |
|         | ×2.3     | ○    | ○  |     | 1.41  |         | × 4.5      | ○          | ○  | ○    | 12.2 |      |
|         | ×2.8     | ○    | ○  |     | 1.68  |         | × 6.0      |            | ○  | ○    | 16.0 |      |
|         |          |      |    |     |       |         | × 8.6      |            |    | ○    | 22.4 |      |
| STK400E | 34.0×2.3 | ○    | ○  |     | 1.80  | STK400E | 127.0× 4.5 |            | ○  |      | 13.6 |      |
|         | ×3.2     | ○    | ○  |     | 2.43  |         |            |            |    |      |      |      |
| STK400E | 42.7×2.3 | ○    | ○  |     | 2.29  | STK400E | 139.8× 3.5 | ○          | ○  | ○    | 11.8 |      |
|         | ×3.2     | ○    | ○  |     | 3.12  |         | × 4.5      | ○          | ○  | ○    | 15.0 |      |
|         | ×3.5     | ○    | ○  |     | 3.38  |         | × 6.0      |            | ○  | ○    | 19.8 |      |
|         |          |      |    |     |       |         | × 6.6      |            | ○  | ○    | 21.7 |      |
| STK400E | 48.6×2.3 | ○    | ○  |     | 2.63  | STK400E | × 9.5      |            |    | ○    | 30.5 |      |
|         | ×3.2     | ○    | ○  |     | 3.58  |         |            |            |    |      |      |      |
|         | ×3.5     | ○    | ○  |     | 3.89  |         |            |            |    |      |      |      |
| STK400E | 60.5×2.3 | ○    | ○  |     | 3.30  | STK400E | 152.4× 5.0 |            | ○  |      | 18.2 |      |
|         | ×2.8     | ○    | ○  |     | 3.98  | STK400E | 165.2× 3.7 | ○          | ○  | ○    | 14.7 |      |
|         | ×3.2     | ○    | ○  |     | 4.52  |         | × 4.5      |            | ○  | ○    | 17.8 |      |
|         | ×3.8     | ○    | ○  |     | 5.31  |         | × 5.0      | ○          | ○  | ○    | 19.8 |      |
|         | ×4.9     | ○    | ○  |     | 6.72  |         | × 6.0      |            | ○  | ○    | 23.6 |      |
|         | ×5.5     | ○    | ○  |     | 7.46  |         | × 7.1      |            | ○  | ○    | 27.7 |      |
|         |          |      |    |     | × 9.3 |         |            |            | ○  | 35.8 |      |      |
| STK400E | 76.3×2.8 | ○    | ○  | ○   | 5.08  | STK400E | × 11.0     |            |    | ○    | 41.8 |      |
|         | ×3.2     | ○    | ○  | ○   | 5.77  |         | STK400E    | 190.7× 4.5 |    |      | ○    | 20.7 |
|         | ×4.2     | ○    | ○  | ○   | 7.47  |         |            | × 5.3      |    |      | ○    | 24.2 |
|         | ×5.2     |      | ○  | ○   | 9.12  |         |            | × 6.0      |    |      | ○    | 27.3 |
|         | ×6.0     |      | ○  |     | 10.4  |         |            | × 7.0      |    |      | ○    | 31.7 |
|         | ×7.0     |      | ○  | ○   | 12.0  |         |            | × 12.0     |    |      | ○    | 52.9 |
|         |          |      |    |     |       |         |            |            |    |      |      |      |
| STK400E | 89.1×2.8 | ○    | ○  | ○   | 5.96  |         |            |            |    |      |      |      |
|         | ×3.2     | ○    | ○  | ○   | 6.78  |         |            |            |    |      |      |      |
|         | ×4.2     | ○    | ○  | ○   | 8.79  |         |            |            |    |      |      |      |
|         | ×5.5     |      | ○  | ○   | 11.3  |         |            |            |    |      |      |      |
|         | ×7.6     |      |    | ○   | 15.3  |         |            |            |    |      |      |      |

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STK400 JIS G3444 一般構造用炭素鋼鋼管

| 規格      | 寸法         | 5.5M | 6M  | 12M | M/重量 | 規格      | 寸法         | 5.5M | 6M   | 12M     | M/重量       |      |         |         |     |  |   |
|---------|------------|------|-----|-----|------|---------|------------|------|------|---------|------------|------|---------|---------|-----|--|---|
| STK400E | 216.3× 4.5 |      |     | ○   | 23.5 | STK400E | 406.4× 6.4 |      |      | ○       | 63.1       |      |         |         |     |  |   |
|         | × 5.8      |      |     | ○   | 30.1 |         | × 7.9      |      |      | ○       | 77.6       |      |         |         |     |  |   |
|         | × 6.0      |      |     | ○   | 31.1 |         | × 9.5      |      |      | ○       | 93.0       |      |         |         |     |  |   |
|         | × 7.0      |      |     | ○   | 36.1 |         | ×12.7      |      |      | ○       | 123        |      |         |         |     |  |   |
|         | × 8.2      |      |     | ○   | 42.1 |         | ×16.0      |      |      | ○       | 154        |      |         |         |     |  |   |
|         | ×10.3      |      |     | ○   | 52.3 |         | ×19.0      |      |      | ○       | 182        |      |         |         |     |  |   |
|         | ×12.7      |      |     | ○   | 63.8 |         | ×22.0      |      |      | ○       | 209        |      |         |         |     |  |   |
|         | ×15.0      |      |     | ○   | 74.5 |         |            |      |      |         |            |      |         |         |     |  |   |
| STK400E | 241.8× 6.2 |      |     | ○   | 36.0 | STK400E | 457.2× 6.4 |      |      | ○       | 71.1       |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            | 87.5 |      |         |            |      |         |         |     |  |   |
| STK400E | 267.4× 5.8 |      |     | ○   | 37.4 | STK400E | 457.2× 6.4 |      |      |         | ○          | 105  |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            | 139  |      |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            |      | 156  |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            |      |      | 174     |            |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            |      |      |         | 205        |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            |      |      |         |            |      | 236     |         |     |  |   |
|         |            |      |     | ○   |      |         |            |      |      |         |            |      |         | 254     |     |  |   |
|         |            |      |     | ○   |      |         |            |      |      |         |            |      |         |         | 316 |  |   |
|         |            | ○    | 364 |     |      |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     | 412 |      |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     | 457  |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     |      | 502     |            |      |      |         |            |      |         |         |     |  |   |
| STK400E | 318.5× 6.0 |      |     |     |      |         |            | ○    | 46.2 | STK400E | 508.0× 6.4 |      |         |         |     |  | ○ |
|         |            |      |     |     |      |         |            | ○    |      |         |            | 97.4 |         |         |     |  |   |
|         |            |      |     |     |      |         |            | ○    |      |         |            |      | 117     |         |     |  |   |
|         |            |      |     |     |      |         |            | ○    |      |         |            |      |         | 155     |     |  |   |
|         |            |      |     |     |      |         | ○          | 194  |      |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         | 229        |      |      |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   | 264  |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   |      | 248     |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    | 311 |     |      |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     | 440 |      |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     |      |         |            |      | 514  |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     |      |         |            |      |      | 565     |            |      |         |         |     |  |   |
| STK400E | 355.6× 6.4 |      |     |     |      |         |            |      |      |         | ○          | 55.1 | STK400A | SS400板巻 |     |  | ○ |
|         |            |      |     |     |      |         |            | ○    |      |         | 311        |      |         |         |     |  |   |
|         |            |      |     |     |      |         | ○          | 440  |      |         |            |      |         |         |     |  |   |
|         |            |      |     |     |      | ○       | 514        |      |      |         |            |      |         |         |     |  |   |
|         |            |      |     |     | ○    | 565     |            |      |      |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   | 248  |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            |      | 311  |         |            |      |         |         |     |  |   |
|         |            |      |     | ○   |      |         |            |      |      | 440     |            |      |         |         |     |  |   |
|         |            | ○    | 514 |     |      |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     | 565 |      |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     |      |         |            | 248  |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     |      |         | 311        |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     |      | 440     |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     | 514  |         |            |      |      |         |            |      |         |         |     |  |   |
|         |            | ○    |     |     |      |         |            |      | 565  |         |            |      |         |         |     |  |   |

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STK400 JIS G3444 一般構造用炭素鋼鋼管

| 規格      | 寸法         | 5.5M | 6M | 12M | M/重量   | 規格      | 寸法          | 5.5M   | 6M | 12M | M/重量 |     |
|---------|------------|------|----|-----|--------|---------|-------------|--------|----|-----|------|-----|
| STK400E | 558.8× 6.4 |      |    | ○   | 87.2   | STK400A | × 19.0      |        |    | ○   | 324  |     |
|         | × 7.9      |      |    | ○   | 107    |         | × 22.0      |        |    | ○   | 374  |     |
|         | × 9.5      |      |    | ○   | 129    |         | 762.0× 6.4  |        |    | ○   | 119  |     |
|         | × 12.7     |      |    | ○   | 171    |         |             | × 7.9  |    |     | ○    | 147 |
|         | × 16.0     |      |    | ○   | 214    |         |             | × 9.5  |    |     | ○    | 176 |
|         | × 19.0     |      |    | ○   | 253    |         |             | × 12.7 |    |     | ○    | 235 |
|         | × 22.0     |      |    | ○   | 291    |         |             | × 16.0 |    |     | ○    | 294 |
| STK400A | × 28.6     |      |    | ○   | 374    | STK400A | 812.8× 6.4  |        |    | ○   | 127  |     |
| STK400E | 609.6× 6.4 |      |    | ○   | 95.2   |         | × 7.9       |        |    | ○   | 157  |     |
|         | × 7.9      |      |    | ○   | 117    |         | × 9.5       |        |    | ○   | 188  |     |
|         | × 9.5      |      |    | ○   | 141    |         | × 12.7      |        |    | ○   | 251  |     |
|         | × 12.7     |      |    | ○   | 187    |         | × 16.0      |        |    | ○   | 314  |     |
|         | × 16.0     |      |    | ○   | 234    |         | × 19.0      |        |    | ○   | 372  |     |
|         | × 19.0     |      |    | ○   | 277    |         | × 22.0      |        |    | ○   | 429  |     |
|         | × 22.0     |      |    | ○   | 319    | STK400A | 863.6× 7.9  |        |    | ○   | 167  |     |
| STK400A | × 25.0     |      |    | ○   | 360    |         | × 9.5       |        |    | ○   | 200  |     |
| × 30.0  |            |      | ○  | 429 | × 12.7 |         |             |        | ○  | 266 |      |     |
| SS400板巻 | × 35.0     |      | ○  |     | 496    | STK400A | 914.4× 7.9  |        |    | ○   | 177  |     |
| STK400E | 660.4× 6.4 |      |    | ○   | 103    |         | × 9.5       |        |    | ○   | 212  |     |
|         | × 7.9      |      |    | ○   | 127    |         | × 12.7      |        |    | ○   | 282  |     |
|         | × 9.5      |      |    | ○   | 152    |         | × 16.0      |        |    | ○   | 354  |     |
|         | × 12.7     |      |    | ○   | 203    |         | × 22.0      |        |    | ○   | 484  |     |
|         | × 16.0     |      |    | ○   | 254    | STK400A | 1016.0× 7.9 |        |    | ○   | 196  |     |
| STK400A | 660.4× 6.4 |      |    | ○   | 103    |         | × 9.5       |        |    | ○   | 236  |     |
|         | × 7.9      |      |    | ○   | 127    |         | × 12.7      |        |    | ○   | 314  |     |
|         | × 9.5      |      |    | ○   | 152    |         | × 16.0      |        |    | ○   | 395  |     |
|         | × 12.7     |      |    | ○   | 203    |         | × 19.0      |        |    | ○   | 467  |     |
|         | × 16.0     |      |    | ○   | 254    | × 22.0  |             |        | ○  | 539 |      |     |
| STK400A | 711.2× 6.0 |      |    | ○   | 104    | STK400A | 1117.6× 9.5 |        |    | ○   | 260  |     |
|         | × 6.4      |      |    | ○   | 111    |         | × 10.3      |        |    | ○   | 281  |     |
|         | × 7.9      |      |    | ○   | 137    |         | × 12.7      |        |    | ○   | 346  |     |
|         | × 9.5      |      |    | ○   | 164    |         |             |        |    |     |      |     |
|         | × 12.7     |      |    | ○   | 219    |         |             |        |    |     |      |     |
|         | × 16.0     |      |    | ○   | 274    |         |             |        |    |     |      |     |

※多重規格品についてはJIS相当品

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| 規格      | 寸法          | 5.5M   | 6M | 12M | M/重量   | 規格     | 寸法         | 5.5M        | 6M     | 12M | M/重量 |     |     |
|---------|-------------|--------|----|-----|--------|--------|------------|-------------|--------|-----|------|-----|-----|
| STK400A | 1219.2× 9.5 |        |    | ○   | 283    | STK490 | 406.4× 9.5 |             |        | ○   | 93.0 |     |     |
|         | × 12.7      |        |    | ○   | 378    |        | × 12.7     |             |        | ○   | 123  |     |     |
|         | × 16.0      |        |    | ○   | 475    |        | × 16.0     |             |        | ○   | 154  |     |     |
|         |             |        |    |     | × 19.0 |        |            |             | ○      | 182 |      |     |     |
| STK490  | 139.8× 6.6  |        |    | ○   | 21.7   | STK490 | 457.2× 9.5 |             |        | ○   | 105  |     |     |
| STK490  | 165.2× 7.1  |        |    | ○   | 27.7   |        | × 12.7     |             |        | ○   | 139  |     |     |
| STK490  | 190.7× 5.3  |        |    | ○   | 24.2   |        | × 14.3     |             |        | ○   | 156  |     |     |
|         |             | × 7.0  |    |     | ○      | 31.7   | × 16.0     |             |        | ○   | 174  |     |     |
| STK490  | 216.3× 5.8  |        |    | ○   | 30.1   | STK490 | 508.0× 9.5 |             |        | ○   | 117  |     |     |
|         |             | × 8.2  |    |     | ○      |        |            | 42.1        | × 12.7 |     |      | ○   | 155 |
|         |             | × 10.3 |    |     | ○      | 52.3   | × 16.0     |             |        | ○   | 194  |     |     |
|         |             | × 12.7 |    |     | ○      | 63.8   | STK490     | 558.8× 9.5  |        |     | ○    | 129 |     |
| STK490  | 267.4× 6.6  |        |    | ○   | 42.4   | × 12.7 |            |             |        |     | ○    | 171 |     |
|         |             | × 8.0  |    |     | ○      | 51.2   |            |             | × 16.0 |     |      | ○   | 214 |
|         |             | × 9.3  |    |     | ○      | 59.2   | STK490     | 609.6× 12.7 |        |     | ○    | 187 |     |
|         |             | × 12.7 |    |     | ○      | 79.8   |            |             | × 16.0 |     |      | ○   | 234 |
|         |             | × 16.0 |    |     | ○      | 99.2   |            |             |        |     |      |     |     |
| × 19.0  |             |        | ○  | 116 |        |        |            |             |        |     |      |     |     |
| STK490  | 318.5× 6.9  |        |    | ○   | 53.0   |        |            |             |        |     |      |     |     |
|         |             | × 10.3 |    |     | ○      | 78.3   |            |             |        |     |      |     |     |
|         |             | × 12.7 |    |     | ○      | 95.8   |            |             |        |     |      |     |     |
|         |             | × 16.0 |    |     | ○      | 119    |            |             |        |     |      |     |     |
|         |             | × 19.0 |    |     | ○      | 140    |            |             |        |     |      |     |     |
| STK490  | 355.6× 7.9  |        |    | ○   | 67.7   |        |            |             |        |     |      |     |     |
|         |             | × 9.5  |    |     | ○      | 81.1   |            |             |        |     |      |     |     |
|         |             | × 11.1 |    |     | ○      | 94.3   |            |             |        |     |      |     |     |
|         |             | × 12.7 |    |     | ○      | 107    |            |             |        |     |      |     |     |
|         |             | × 16.0 |    |     | ○      | 134    |            |             |        |     |      |     |     |
|         |             | × 19.0 |    |     | ○      | 158    |            |             |        |     |      |     |     |

一般構造用

配管用

機械構造用

角形構造用

油圧配管用

シリンダーチューブ

アルミニウム

※多重規格品についてはJIS相当品