

• Carbon steel tubes for machine structure 機械構造用炭素鋼管 / 机械构造合金

JIS G 3445

| 種類記号      | 化学成分      |       |           |        |        |         | 引張試験「TP=JIS11号」   |                   |     | 製造方法 |     | 仕上方法               |
|-----------|-----------|-------|-----------|--------|--------|---------|-------------------|-------------------|-----|------|-----|--------------------|
|           | C         | Si    | Mn        | P      | S      | Nb or V | 引張強さ              | 降伏点               | 伸び  | S-C  | E-C |                    |
| 単位        | (%)       | (%)   | (%)       | (%)    | (%)    | (%)     | N/mm <sup>2</sup> | N/mm <sup>2</sup> | (%) |      |     |                    |
| STKM 11 A | ≤0.12     | ≤0.35 | ≤0.60     | ≤0.040 | ≤0.040 | -       | ≥290              | -                 | ≥35 | *1   | *2  | 冷間仕上げのまま、または適切な熱処理 |
| STKM 12 A | ≤0.20     | ≤0.35 | ≤0.60     | ≤0.040 | ≤0.040 | -       | ≥340              | ≥175              | ≥35 |      |     |                    |
| STKM 12 B |           |       |           |        |        |         | ≥390              | ≥275              | ≥25 |      |     |                    |
| STKM 12 C |           |       |           |        |        |         | ≥470              | ≥355              | ≥20 |      |     |                    |
| STKM 13 A | ≤0.25     | ≤0.35 | 0.30~0.90 | ≤0.040 | ≤0.040 | -       | ≥370              | ≥215              | ≥30 |      |     |                    |
| STKM 13 B |           |       |           |        |        |         | ≥440              | ≥305              | ≥20 |      |     |                    |
| STKM 13 C |           |       |           |        |        |         | ≥510              | ≥380              | ≥15 |      |     |                    |
| STKM 14 A | ≤0.30     | ≤0.35 | 0.30~1.00 | ≤0.040 | ≤0.040 | -       | ≥410              | ≥245              | ≥25 |      |     |                    |
| STKM 14 B |           |       |           |        |        |         | ≥500              | ≥355              | ≥15 |      |     |                    |
| STKM 14 C |           |       |           |        |        |         | ≥550              | ≥410              | ≥15 |      |     |                    |
| STKM 15 A | 0.25~0.35 | ≤0.35 | 0.30~1.00 | ≤0.040 | ≤0.040 | -       | ≥470              | ≥275              | ≥22 |      |     |                    |
| STKM 15 C |           |       |           |        |        |         | ≥580              | ≥430              | ≥12 |      |     |                    |
| STKM 16 A | 0.35~0.45 | ≤0.40 | 0.40~1.00 | ≤0.040 | ≤0.040 | -       | ≥510              | ≥325              | ≥20 |      |     |                    |
| STKM 16 C |           |       |           |        |        |         | ≥620              | ≥460              | ≥12 |      |     |                    |
| STKM 17 A | 0.45~0.55 | ≤0.40 | 0.40~1.00 | ≤0.040 | ≤0.040 | -       | ≥550              | ≥345              | ≥20 |      |     |                    |
| STKM 17 C |           |       |           |        |        |         | ≥650              | ≥480              | ≥10 |      |     |                    |
| STKM 18 A | ≤0.18     | ≤0.55 | ≤1.50     | ≤0.040 | ≤0.040 | -       | ≥440              | ≥275              | ≥25 |      |     |                    |
| STKM 18 B |           |       |           |        |        |         | ≥490              | ≥315              | ≥23 |      |     |                    |
| STKM 18 C |           |       |           |        |        |         | ≥510              | ≥380              | ≥15 |      |     |                    |
| STKM 19 A | ≤0.25     | ≤0.55 | ≤1.50     | ≤0.040 | ≤0.040 | -       | ≥490              | ≥315              | ≥23 |      |     |                    |
| STKM 19 C |           |       |           |        |        |         | ≥550              | ≥410              | ≥15 |      |     |                    |
| STKM 20 A | ≤0.25     | ≤0.55 | ≤1.60     | ≤0.040 | ≤0.040 | ≤0.15   | ≥540              | ≥390              | ≥23 |      |     |                    |

\*1 S-C: 冷間仕上げ継目無鋼管

\*2 E-C: 冷間仕上げ電気抵抗溶接鋼管

