

# Specification 鋼管規格

## Welded Stainless Steel Sanitary Tubing for Boiler, Heat-Exchanger & General Service

食品衛生用不銹鋼鋼管 / 鍋爐熱交換器用不銹鋼鋼管

**ASTM A249 / A269 / A270, AS 1528.1, JIS G3447 / G3463, CNS 6668 / 7383**

| Standard                     | Thickness (mm)   |             | 0.9                                                                                                                                                                                                                                                                                                                                                                          | 1.0 | 1.2 | 1.25 | 1.5 | 1.6 | 1.65 | 2.0 | 2.11 | 2.5 | 2.77<br>2.85 | 3.0<br>3.05 |
|------------------------------|------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|-----|-----|------|-----|------|-----|--------------|-------------|
|                              | Outside Diameter |             |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      |     |     |      |     |      |     |              |             |
|                              | inch             | mm          |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      |     |     |      |     |      |     |              |             |
| ASTM<br>A249<br>A269<br>A270 | 1/2              | 12.7        | ✓                                                                                                                                                                                                                                                                                                                                                                            |     |     |      |     |     |      |     |      |     |              |             |
|                              | 5/8              | 15.9        | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    |     |      |     |              |             |
|                              | 3/4              | 19 / 19.05  | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    |     |      |     |              |             |
|                              | 7/8              | 22 / 22.2   | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   |      |     |              |             |
|                              | 1                | 25 / 25.4   | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | -                | 28          | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 1 1/4            | 31.8 / 32   | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | -                | 35          | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 1 1/2            | 38 / 38.1   | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 2                | 50.8 / 51   | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | -                | 52          |                                                                                                                                                                                                                                                                                                                                                                              |     | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 2 1/2            | 63.5        |                                                                                                                                                                                                                                                                                                                                                                              |     | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | -                | 70          |                                                                                                                                                                                                                                                                                                                                                                              |     | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 3                | 76.1 / 76.2 |                                                                                                                                                                                                                                                                                                                                                                              |     | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | -                | 85          |                                                                                                                                                                                                                                                                                                                                                                              |     | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 3 1/2            | 88.9        |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 4                | 101.6       |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | -                | 104         |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 4 1/2            | 114.3       |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 5                | 127 / 129   |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓            | ✓           |
|                              | 6                | 152.4 / 154 |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓            | ✓           |
|                              | 8                | 203.2 / 204 |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      |     |     | ✓    | ✓   | ✓    | ✓   | ✓            | ✓           |
| AS<br>1528.1                 | 1/2              | 12.7        | ✓                                                                                                                                                                                                                                                                                                                                                                            |     |     |      |     |     |      |     |      |     |              |             |
|                              | 5/8              | 15.88       | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    |     |      |     |              |             |
|                              | 3/4              | 19.05       | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    |     |      |     |              |             |
|                              | 7/8              | 22.23       | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   |      |     |              |             |
|                              | 1                | 25.4        | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 1 1/4            | 31.75       | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | -                | 34.93       | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 1 1/2            | 38.1        | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 2                | 50.8        | ✓                                                                                                                                                                                                                                                                                                                                                                            | ✓   | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    |     |              |             |
|                              | 2 1/2            | 63.5        |                                                                                                                                                                                                                                                                                                                                                                              |     | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 3                | 76.2        |                                                                                                                                                                                                                                                                                                                                                                              |     | ✓   | ✓    | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 4                | 101.6       |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   |              |             |
|                              | 5                | 127         |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓            | ✓           |
|                              | 6                | 152.4       |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓            | ✓           |
|                              | 8                | 203.2       |                                                                                                                                                                                                                                                                                                                                                                              |     |     |      |     |     | ✓    | ✓   | ✓    | ✓   | ✓            | ✓           |
| Remark                       |                  |             | (1) Inside Bead Removal :<br>Outside Polishing Grit 180 / 320 / 400 ( $\phi \leq 114.3\text{mm}$ ), Inside Polishing Grit 320 ( $\phi 19\sim 129\text{mm}$ )<br>(2) Non Inside Bead Removal : Outside Polishing Grit 180 / 320 / 400 ( $\phi \leq 114.3\text{mm}$ ) / 600 ( $\phi \leq 101.6\text{mm}$ )<br>(3) JIS G3447 / G3463, CNS 6668 / 7383 : Capability Same as ASTM |     |     |      |     |     |      |     |      |     |              |             |