# Product Reference Manual

## Stainless Steel Tubing

SOE MYINT & SONS Co.,Ltd.

## Sanitary Tubes 3A ASTM A270

## Dimensional Tolerances

all dimensions in inches (mm)

| Size OD | Tolerances, OD | Wall thickness | Tolerances on wall thickness [a)] | Tolerances on Length |
|---|---|---|---|---|
| 1/2" (12.7) | +/-0.005" (0.13) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 3/4" (19.1) | +/-0.005" (0.13) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 1" (25.4) | +/-0.005" (0.13) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 1-1/4" (31.8) | +/-0.008" (0.20) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 1-1/2" (38.1) | +/-0.008" (0.20) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 2" (50.8) | +/-0.008" (0.20) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 2-1/2" (63.5) | +/-0.010" (0.25) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 3" (76.2) | +/-0.010" (0.25) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 4" (101.6) | +/-0.015" (0.38) | 0.079"(2.00) | +/-10.0% | +1/8" (3.18) |
| 6" (152.4) | +/-0.030" (0.76) | 0.079"(2.00) | +/-10.0% | +1" (25.4) - 0 |
| 8" (203.2) | +0.061" (1.55)<br>- 0.031" (0.79) | 0.079"(2.00) | +/-10.0% | +1" (25.4) - 0 |

## Chemical Composition

| Elements | | 304 (wt%) | 304L (wt%) | 316L (wt%) |
|---|---|---|---|---|
| (C) | Carbon, Max. | 0.080 | 0.035 | 0.035 |
| (Mn) | Manganese, Max. | 2.00 | 2.00 | 2.00 |
| (P) | Phosphorus, Max. | 0.040 | 0.040 | 0.040 |
| (S) | Sulfur, Max. | 0.030 | 0.030 | 0.030** |
| (Si) | Silicon, Max. | 0.75 | 0.75 | 0.75 |
| (Ni) | Nickel | 8.0–11.0 | 8.0–13.0 | 10.0–15.0 |
| (Cr) | Chromium | 18.0–20.0 | 18.0–20.0 | 16.0–18.0 |
| (Mo) | Molybdenum | N/A | N/A | 2.0–3.0 |
| (Fe) | Iron | Bal. | Bal. | Bal. |
| (Cu) | Copper | N/A | N/A | N/A |
| (N) | Nitrogen | N/A | N/A | N/A |

# Ornamental Tubing (Decoration) Pipe Tube ASTM-A554 / AISI-304

Surface Finish - HL / BA

| SIZE | | THICKNESS | | | | | |
|---|---|---|---|---|---|---|---|
| Inch | mm | 1.0 mm | 1.2mm | 1.5mm | 2.0mm | 2.5mm | 3.0mm |
| 3/8 | 9.5 | | | | | | |
| 1/2 | 12.7 | | | | | | |
| 5/8 | 15.9 | | | | | | |
| 3/4 | 19.1 | | | | | | |
| 7/8 | 22.2 | | | | | | |
| 1 | 25.4 | | | | | | |
| 1 1/4 | 31.8 | | | | | | |
| 1 1/2 | 38.1 | | | | | | |
| 2 | 50.8 | | | | | | |
| 2 1/2 | 63.5 | | | | | | |
| 3 | 76.2 | | | | | | |
| 4 | 101.6 | | | | | | |
| 5 | 127.0 | | | | | | |
| 6 | 152.4 | | | | | | |
| 8 | 203.2 | | | | | | |

| Surface Finish | |
|---|---|
| HL (Hair Line) | A finish obtained by mechanical polishing with 120-320 grit. |
| BA | Bright Annealed Finish. |

# Ornamental Tubing (Decoration) Square Tube ASTM-A554 / AISI-304

Surface Finish - HL / BA

| SIZE | | THICKNESS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| mm x mm | Inch x Inch | 1.0 mm | 1.2mm | 1.5mm | 2.0mm | 3.0mm | 4.0mm | 5.0mm | 6.0mm |
| 13 x 13 | 1/2 x 1 1/2 | | | | | | | | |
| 15 x 15 | 5/8 x 5/8 | | | | | | | | |
| 20 x 20 | 3/4 x 3/4 | | | | | | | | |
| 25 x 25 | 1 x 1 | | | | | | | | |
| 30 x 30 | 1 1/4 x 1 1/4 | | | | | | | | |
| 40 x 40 | 1 1/2 x 1 1/2 | | | | | | | | |
| 50 x 50 | 2 x 2 | | | | | | | | |
| 60 x 60 | 2 1/2 x 2 1/2 | | | | | | | | |
| 75 x 75 | 3 x 3 | | | | | | | | |
| 100 x 100 | 4 x 4 | | | | | | | | |
| 150 x 150 | 6 x 6 | | | | | | | | |

# Ornamental Tubing (Decoration) Rectangular Tube ASTM-A554 / AISI-304

Surface Finish - HL / BA

| SIZE | | THICKNESS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| mm x mm | Inch x Inch | 1.0 mm | 1.2mm | 1.5mm | 2.0mm | 3.0mm | 4.0mm | 5.0mm | 6.0mm |
| 10 x 20 | 3/8 x 3/4 | | | | | | | | |
| 10 x 30 | 3/8 x 1 1/4 | | | | | | | | |
| 10 x 40 | 3/8 x 1 1/2 | | | | | | | | |
| 10 x 50 | 3/8 x 2 | | | | | | | | |
| 20 x 40 | 3/4 x 1 1/2 | | | | | | | | |
| 25 x 12 | 1 x 1/2 | | | | | | | | |
| 25 x 40 | 1 x 1 1/2 | | | | | | | | |
| 25 x 50 | 1 x 2 | | | | | | | | |
| 30 x 15 | 1 1/4 x 5/8 | | | | | | | | |
| 40 x 75 | 1 1/2 x 3 | | | | | | | | |
| 50 x 100 | 2 x 4 | | | | | | | | |
| 50 x 125 | 2 x 5 | | | | | | | | |
| 75 x 150 | 3 x 6 | | | | | | | | |