

# Copper Medical Gas Tube AS/NZS 1571

## SEAMLESS COPPER TUBE



## USAGE

- Medical gas supply.
- Medical suction.
- Gas supply to surgical tools.

## BENEFITS

- Backed by MM Kembla's reputation for quality, service and customer care for nearly 100 years.
- Manufactured to Australia / New Zealand standard AS/NZS 1571 and meets the requirements of Medical Gas installation code AS2896.
- MM Kembla is Australia's main supplier of Medical Gas copper tube.
- Kembla Medical Gas tube is stocked nationwide for prompt delivery.

## FEATURES

- Medical Gas AS/NZS 1571 copper tube is available in sizes 6.35mm (1/4") up to and including 152.4mm (6"), in various wall thicknesses.
- MM Kembla has a unique manufacturing process to ensure that the total internal residue does not exceed 0.038g/m<sup>2</sup> as specified in AS/NZS 1571.  
The internal cleanliness of medical gas and oxygen tubes is critical in order to prevent gas contamination and potential explosions. Oxygen under pressure may cause spontaneous combustion of residual organic drawing oils if they remain inside tubes after manufacture. Oils or other contaminants may also cause patients serious respiratory problems if not removed prior to installation.
- After cleaning, all tubes are individually end-capped to maintain their internal cleanliness, then bundled and wrapped in plastic for maximum protection.
- All sizes of Medical gas tubes have been designed to be suitable for vacuum or suction line applications.
- The full range of Medical Gas copper tubes are listed overleaf.

## INSTALLATION

Per the Medical Gas Systems installation code AS2896;

- During storage and handling of Medical Gas tube and fittings, particular attention must be given to keeping them clean and dry.
- All brazing alloys shall comply with B4 alloy designation as specified in AS1167.1.
- When brazing joints, commercial-grade carbon dioxide shall be used as an internal inert gas shield. Extreme care must be taken to ensure adequate ventilation, as high levels of CO<sub>2</sub> are toxic and can cause suffocation.
- Tools used for cutting or reaming shall be kept free from oil or grease.
- Pipelines and fittings sizes shall be selected to provide the required design flow of the entire health care facility.
- Pressure and contaminant testing should be performed on installed tubing before final approval and use of system.

# Copper Medical Gas Tube TO AS/NZS 1571

| SPECIFICATIONS   |         |                     |                           |                             |      |      |      |                       |              |
|------------------|---------|---------------------|---------------------------|-----------------------------|------|------|------|-----------------------|--------------|
| ACTUAL TUBE SIZE |         |                     |                           | SAFE WORKING PRESSURE (kPa) |      |      |      | FORM                  |              |
| OD (inches)      | OD (mm) | Wall Thickness (mm) | Nominal tube mass (kg/6m) | Service Temperature (°C)    |      |      |      | Straight Lengths (6m) | Product Code |
|                  |         |                     |                           | 55                          | 60   | 65   | 70   |                       |              |
| 1/4"             | 6.35    | 0.81                | 0.76                      | 10270                       | 9910 | 9545 | 9180 | ✓                     | T51435       |
| 3/8"             | 9.52    | 0.91                | 1.32                      | 7455                        | 7190 | 6930 | 6665 | ✓                     | T56847       |
| 1/2"             | 12.70   | 0.91                | 1.81                      | 5460                        | 5270 | 5075 | 4880 | ✓✓                    | T22530       |
| 5/8"             | 15.88   | 1.02                | 2.56                      | 4860                        | 4690 | 4515 | 4345 | ✓✓                    | T16870       |
| 3/4"             | 19.05   | 1.02                | 3.10                      | 4010                        | 3870 | 3725 | 3585 | ✓✓                    | T24815       |
| 7/8"             | 22.22   | 1.22                | 4.35                      | 4120                        | 3970 | 3830 | 3680 | ✓                     | T64173       |
| 1"               | 25.40   | 1.22                | 4.97                      | 3580                        | 3450 | 3325 | 3200 | ✓                     | T91952       |
| 1-1/4"           | 31.75   | 1.22                | 6.28                      | 2835                        | 2735 | 2635 | 2535 | ✓                     | T91979       |
| 1-1/2"           | 38.10   | 1.22                | 7.59                      | 2350                        | 2265 | 2185 | 2100 | ✓                     | T91995       |
| 2"               | 50.80   | 1.22                | 10.20                     | 1750                        | 1690 | 1625 | 1565 | ✓                     | T94943       |
| 2-1/2"           | 63.5    | 1.22                | 12.82                     | 1395                        | 1347 | 1299 | 1275 | ✓                     | T89945       |
| 3"               | 76.20   | 1.63                | 20.49                     | 1555                        | 1500 | 1445 | 1390 | ✓                     | T88013       |
| 4"               | 101.60  | 1.63                | 27.47                     | 1160                        | 1120 | 1080 | 1035 | ✓                     | T20923       |
| 5"               | 127     | 1.63                | 34.46                     | 928                         | 896  | 864  | 828  | ✓                     | T19207       |
| 6"               | 152.4   | 20.3                | 152.4                     | 962                         | 929  | 896  | 858  | ✓                     | T19615       |

✓✓ Half Hard Temper

✓ Hard Temper

Other Medical Gas copper tube sizes available upon request

**For further information:** Refer to the current edition of The Plumbers Handbook available through your MM Kembla representative or contact Customer Service on 1800 804 631.