

FRICTION LOSS METRIC COPPER

| FRICTION LOSS: Copper Tube B Based on AS 1432-2004 | | | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|------------------|---------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|
| COOPER TUBE TYPE B | | 10mm Nom. Bore 7.65mm ID | | 15mm Nom. Bore 10.81mm ID | | 18mm Nom. Bore 13.8mm ID | | 20mm Nom. Bore 16.9mm ID | | 25mm Nom. Bore 22.8mm ID | | 32mm Nom. Bore 29.1mm ID | | 40mm Nom. Bore 35.4mm ID | | 50mm Nom. Bore 48.3mm ID | |
| FLOW RATE L/s | FLOW RATE L/MIN | Velocity m/s | Head Loss m/100m | Velocity m/s | Head Loss m/100m | Velocity m/s | Head Loss m/100m | Velocity m/s | Head Loss m/100m | Velocity m/s | Head Loss m/100m | Velocity m/s | Head Loss m/100m | Velocity m/s | Head Loss m/100m | Velocity m/s | Head Loss m/100m |
| 0.01 | 0.6 | 0.22 | 1.38 | | | | | | | | | | | | | | |
| 0.02 | 1.2 | 0.44 | 3.67 | 0.22 | 0.69 | 0.13 | 0.26 | | | | | | | | | | |
| 0.04 | 2.4 | 0.87 | 18.17 | 0.44 | 3.55 | 0.27 | 1.14 | 0.18 | 0.28 | | | | | | | | |
| 0.06 | 3.6 | 1.31 | 36.66 | 0.65 | 7.11 | 0.40 | 2.28 | 0.27 | 0.86 | 0.15 | 0.21 | | | | | | |
| 0.08 | 4.8 | 1.74 | 60.52 | 0.87 | 11.69 | 0.54 | 3.74 | 0.36 | 1.41 | 0.20 | 0.34 | 0.12 | 0.11 | | | | |
| 0.10 | 6 | 2.18 | 89.47 | 1.09 | 17.23 | 0.67 | 5.50 | 0.45 | 2.07 | 0.24 | 0.51 | 0.15 | 0.16 | 0.10 | 0.06 | | |
| 0.20 | 12 | 4.35 | 304.78 | 2.18 | 58.07 | 1.34 | 18.41 | 0.89 | 6.91 | 0.49 | 1.67 | 0.30 | 0.52 | 0.20 | 0.21 | 0.11 | 0.05 |
| 0.30 | 18 | 6.53 | 629.35 | 3.27 | 119.10 | 2.02 | 37.61 | 1.34 | 14.06 | 0.73 | 3.39 | 0.45 | 1.06 | 0.30 | 0.42 | 0.16 | 0.10 |
| 0.40 | 24 | | | 4.35 | 198.92 | 2.69 | 62.63 | 1.78 | 23.36 | 0.98 | 5.61 | 0.60 | 1.75 | 0.41 | 0.69 | 0.22 | 0.16 |
| 0.50 | 30 | | | 5.44 | 296.71 | 3.36 | 93.19 | 2.23 | 34.70 | 1.22 | 8.31 | 0.75 | 2.59 | 0.51 | 1.02 | 0.27 | 0.23 |
| 0.60 | 36 | | | 6.53 | 411.89 | 4.03 | 129.09 | 2.67 | 47.99 | 1.47 | 11.47 | 0.90 | 3.57 | 0.61 | 1.40 | 0.33 | 0.32 |
| 0.70 | 42 | | | | | 4.71 | 170.18 | 3.12 | 63.17 | 1.71 | 15.07 | 1.05 | 4.69 | 0.71 | 1.84 | 0.38 | 0.42 |
| 0.80 | 48 | | | | | 5.38 | 216.35 | 3.56 | 80.21 | 1.96 | 19.11 | 1.20 | 5.94 | 0.81 | 2.33 | 0.44 | 0.53 |
| 0.90 | 54 | | | | | 6.05 | 267.49 | 4.01 | 99.06 | 2.20 | 23.57 | 1.35 | 7.32 | 0.91 | 2.87 | 0.49 | 0.65 |
| 1.00 | 60 | | | | | 6.72 | 323.54 | 4.45 | 119.69 | 2.45 | 28.44 | 1.50 | 8.82 | 1.01 | 3.45 | 0.55 | 0.79 |
| 1.20 | 72 | | | | | | | 5.34 | 166.20 | 2.94 | 39.40 | 1.80 | 12.20 | 1.22 | 4.77 | 0.66 | 1.09 |
| 1.40 | 84 | | | | | | | 6.23 | 219.54 | 3.43 | 51.94 | 2.10 | 16.06 | 1.42 | 6.28 | 0.76 | 1.43 |
| 1.60 | 96 | | | | | | | | | 3.92 | 66.03 | 2.40 | 20.39 | 1.62 | 7.96 | 0.87 | 1.81 |
| 1.80 | 108 | | | | | | | | | 4.41 | 81.62 | 2.70 | 25.18 | 1.83 | 9.82 | 0.98 | 2.23 |
| 2.00 | 120 | | | | | | | | | 4.90 | 98.71 | 3.00 | 30.42 | 2.03 | 11.86 | 1.09 | 2.69 |
| 2.50 | 150 | | | | | | | | | 6.12 | 147.80 | 3.75 | 45.44 | 2.54 | 17.69 | 1.36 | 4.00 |
| 3.00 | 180 | | | | | | | | | | | 4.50 | 63.15 | 3.04 | 24.55 | 1.64 | 5.54 |
| 3.50 | 210 | | | | | | | | | | | 5.26 | 83.46 | 3.55 | 32.41 | 1.91 | 7.31 |
| 4.00 | 240 | | | | | | | | | | | 6.01 | 106.34 | 4.06 | 41.24 | 2.18 | 9.29 |
| 4.50 | 270 | | | | | | | | | | | 6.76 | 131.72 | 4.56 | 51.04 | 2.46 | 11.48 |
| 5.00 | 300 | | | | | | | | | | | | | 5.07 | 61.78 | 2.73 | 13.87 |
| 5.50 | 330 | | | | | | | | | | | | | 5.58 | 73.44 | 3.00 | 16.48 |
| 6.00 | 360 | | | | | | | | | | | | | 6.09 | 86.03 | 3.28 | 19.28 |
| 6.50 | 390 | | | | | | | | | | | | | 6.59 | 99.53 | 3.55 | 22.28 |
| 7.00 | 420 | | | | | | | | | | | | | | | 3.82 | 25.48 |
| 7.50 | 450 | | | | | | | | | | | | | | | 4.09 | 28.87 |
| 8.00 | 480 | | | | | | | | | | | | | | | 4.37 | 32.46 |
| 8.50 | 510 | | | | | | | | | | | | | | | 4.64 | 36.24 |
| 9.00 | 540 | | | | | | | | | | | | | | | 4.91 | 40.20 |
| 9.50 | 570 | | | | | | | | | | | | | | | 5.19 | 44.35 |
| 10.00 | 600 | | | | | | | | | | | | | | | 5.46 | 48.69 |
| 11.00 | 660 | | | | | | | | | | | | | | | 6.00 | 57.93 |
| 12.00 | 720 | | | | | | | | | | | | | | | 6.55 | 69.90 |

DISCLAIMER: The information and data provided is estimated and is a guide only, and it is the sole and entire responsibility of the user to ensure that it is accurate and suitable for their application.