



**Ambani**  
**METALS**

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RELIABLE FOUNDATION, REMARKABLE FUTURES!

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**WIRE MESH DATASHEET**

## WIRE MESH SPECIFICATION GUIDE

| Meshes per<br>linear inch | Wire diameter |       | Width of opening |      | Open area<br>percent | Weight - Pounds per 100 Sq . ft . |             |            |
|---------------------------|---------------|-------|------------------|------|----------------------|-----------------------------------|-------------|------------|
|                           | Inches        | mm    | Inches           | mm   |                      | stainless steel                   | pure copper | 80-20Brass |
| 1X1                       | .157          | 4.0   | .84              | 21.4 | 71.0                 | 110.97                            | 46.6        | 45.4       |
| 2X2                       | .118          | 2.5   | .38              | 10.2 | 64.0                 | 86.77                             | 58.0        | 56.6       |
| 3X3                       | .079          | 2.0   | .25              | 6.4  | 58.0                 | 82.45                             | 64.3        | 62.7       |
| 4X4                       | .063          | 1.6   | .187             | 4.75 | 56.0                 | 104.8                             | 118.8       | 115.8      |
| 4X4                       | .047          | 1.19  | .0203            | 5.16 | 65.9                 | 57.6                              | 65.3        | 63.7       |
| 5X5                       | .055          | 1.4   | .14              | 3.68 | 52.0                 | 68.25                             | 62.2        | 60.7       |
| 6X6                       | .047          | 1.2   | .12              | 3.03 | 51.0                 | 59.74                             | 54.5        | 53.2       |
| 8X8                       | .043          | 1.1   | .08              | 2.08 | 42.0                 | 66.83                             | 46.6        | 45.4       |
| 10X10                     | .039          | 1.0   | .06              | 1.54 | 36.0                 | 69.67                             | 46.7        | 45.5       |
| 10X10                     | .020          | .51   | .080             | 2.03 | 64.0                 | 26.1                              | 29.6        | 28.8       |
| 12X12                     | .023          | .584  | .060             | 1.52 | 51.8                 | 42.2                              | 47.8        | 46.6       |
| 12X12                     | .020          | .508  | .063             | 1.60 | 57.2                 | 31.6                              | 35.8        | 34.9       |
| 14X14                     | .023          | .854  | .048             | 1.22 | 45.2                 | 49.8                              | 56.4        | 55.0       |
| 14X14                     | .020          | .508  | .051             | 1.30 | 51.0                 | 37.2                              | 42.2        | 41.1       |
| 16X16                     | .018          | .457  | .445             | 1.13 | 50.7                 | 34.5                              | 39.1        | 38.1       |
| 18X18                     | .017          | .432  | .0386            | .98  | 48.3                 | 34.8                              | 39.4        | 38.5       |
| 20X20                     | .020          | .508  | .0300            | .76  | 36.0                 | 55.2                              | 62.6        | 61.0       |
| 20X20                     | .016          | .406  | .0340            | .86  | 46.2                 | 34.4                              | 39.0        | 38.0       |
| 24X24                     | .014          | .356  | .0277            | .70  | 44.2                 | 31.8                              | 36.0        | 35.1       |
| 30X30                     | .013          | .330  | .0203            | .52  | 37.1                 | 34.8                              | 39.4        | 38.5       |
| 30X30                     | .012          | .305  | .0213            | .54  | 40.8                 | 29.4                              | 33.3        | 32.5       |
| 30X30                     | .009          | .229  | .0243            | .62  | 53.1                 | 16.1                              | 18.3        | 17.8       |
| 35X35                     | .11           | .279  | .0176            | .45  | 37.9                 | 29.0                              | 32.9        | 32.0       |
| 40X40                     | .010          | .254  | .150             | .38  | 36.0                 | 27.6                              | 31.3        | 30.5       |
| 50X50                     | .009          | .229  | .0110            | .28  | 30.3                 | 28.4                              | 32.2        | 31.4       |
| 50X50                     | .008          | .203  | .0120            | .31  | 36.0                 | 22.1                              | 25.1        | 24.4       |
| 60X60                     | .0075         | .191  | .0092            | .23  | 30.5                 | 23.7                              | 26.9        | 26.2       |
| 60X60                     | .007          | .178  | .0097            | .25  | 33.9                 | 20.4                              | 23.1        | 22.5       |
| 70X70                     | .0065         | .0165 | .0078            | .20  | 29.8                 | 20.8                              | 23.6        | 23.0       |
| 80X80                     | .0065         | .165  | .0060            | .15  | 23.0                 | 23.2                              | 26.3        | 25.6       |
| 80X80                     | .0055         | .140  | .0070            | .18  | 31.4                 | 16.9                              | 19.2        | 18.7       |

| Meshes per linear inch | Wire diameter |       | Width of opening |       | Open area percent | Weight - Pounds per 100 Sq.ft. |             |            |
|------------------------|---------------|-------|------------------|-------|-------------------|--------------------------------|-------------|------------|
|                        | Inches        | mm    | Inches           | mm    |                   | Stainless steel                | Pure copper | 80-20Brass |
| 90X90                  | .005          | .127  | .0061            | .16   | 30.1              | 15.8                           | 17.9        | 17.5       |
| 100x100                | .0045         | .114  | .0055            | .14   | 30.3              | 14.2                           | 16.1        | 15.7       |
| 100x100                | .004          | .102  | .0060            | .15   | 36.0              | 11.0                           | 12.5        | 12.2       |
| 100x100                | .0035         | .089  | .0065            | .17   | 42.3              | 8.3                            | 9.4         | 9.2        |
| 110x100                | .0040         | .1016 | .0051            | .1295 | 30.7              | 12.4                           | 14.1        | 13.7       |
| 120x120                | .0037         | .0940 | .0046            | .1168 | 30.7              | 11.6                           | 13.1        | 12.8       |
| 150x150                | .0026         | .0660 | .0041            | .1041 | 37.4              | 7.1                            | 8.0         | 7.8        |
| 160x160                | .0025         | .0635 | .0038            | .0965 | 36.4              | 5.94                           | -           | -          |
| 180x180                | .0023         | .0584 | .0033            | .0838 | 34.7              | 6.7                            | 7.6         | 7.4        |
| 200x200                | .0021         | .0533 | .0029            | .0737 | 33.6              | 6.2                            | 7.0         | 6.9        |
| 250x250                | .0016         | .0406 | .0024            | .0610 | 36.0              | 4.4                            | 5.0         | 4.9        |
| 270x270                | .0016         | .0406 | .0021            | .0533 | 32.2              | 4.7                            | 5.3         | -          |
| 300x300                | .0015         | .0381 | .0018            | .0457 | 29.7              | 3.04                           | -           | -          |
| 325x325                | .0014         | .0356 | .0017            | .0432 | 30.0              | 4.40                           | 5.0         | -          |
| 400x400                | .0010         | .0254 | .0015            | .0370 | 36.0              | 3.3                            | 3.7         | -          |
| 500x500                | .0010         | .0254 | .0010            | .0254 | 25.0              | 3.8                            | 4.3         | -          |
| 635x635                | .0008         | .0203 | .0008            | .0203 | 25.0              | 2.63                           | -           | -          |

## PLAIN DUTCH WEAVE

| Mesh count per Inch | Wire diameter inches | Absolute filter rating microns | Nominal filter rating microns |
|---------------------|----------------------|--------------------------------|-------------------------------|
| 8x85                | .014x.0126           | 318-348                        | 250-255                       |
| 12x64               | .024x.0165           | 270-285                        | 200-205                       |
| 14x88               | .020x.013            | 225-245                        | 150-155                       |
| 20x150              | .0098x.007           | 155-165                        | 100-105                       |
| 24x100              | .015x.010            | 115-125                        | 80-85                         |
| 30x150              | .009x.007            | 95-100                         | 65-70                         |
| 40x200              | .007x.0055           | 65-70                          | 55-60                         |
| 50x250              | .0055x.0045          | 55-60                          | 40-45                         |
| 80x400              | .0049x.0028          | 43-48                          | 35-40                         |

## TWILL DUTCH WEAVE

| Mesh count per Inch | Wire diameter inches | Absolute filter rating microns | Nominal filter rating microns |
|---------------------|----------------------|--------------------------------|-------------------------------|
| 20x250              | .0098x.0079          | 110-120                        | 98-105                        |
| 30x360              | .0098x.0060          | 90-100                         | 80-84                         |
| 40x560              | .0070x.0040          | 70-75                          | 47-52                         |
| 80x700              | .0040x.0030          | 35-40                          | 24-26                         |
| 200x600             | .0024x.0018          | 28-32                          | 19-21                         |
| 165x800             | .0028x.0020          | 24-26                          | 14-16                         |
| 165x1400            | .0028x.0016          | 16-18                          | 9-11                          |
| 200x1400            | .0028x.0016          | 12-14                          | 5-6                           |
| 250x400             | .0022x.0016          | 11-12                          | 3-4                           |
| 325x2300            | .0015x.0010          | 8-9                            | 2-3                           |

## TENSILE BOLTING CLOTH

| Meshes Per<br>Linear Inch | Width of Opening |       | Diameter of Wire |       | Open Area per Cent | Weight<br>100 Sp . ft . |
|---------------------------|------------------|-------|------------------|-------|--------------------|-------------------------|
|                           | Inches           | mm    | Inches           | mm    |                    |                         |
| 16x16                     | .0535            | 1.36  | .009             | .229  | 73.3               | 8.38                    |
| 18x18                     | .0466            | 1.18  | .009             | .229  | 70.2               | 9.48                    |
| 24x24                     | .0342            | .869  | .0075            | .191  | 67.2               | 8.75                    |
| 28x28                     | .282             | .716  | .0075            | .191  | 62.4               | 10.29                   |
| 30x30                     | .0268            | .681  | .0065            | .165  | 64.8               | 8.35                    |
| 36x36                     | .0213            | .541  | .0065            | .165  | 58.7               | 10.09                   |
| 40x40                     | .0185            | .470  | .0065            | .165  | 54.8               | 11.29                   |
| 50x50                     | .145             | .368  | .0055            | .127  | 52.6               | 10.14                   |
| 60x60                     | .0122            | .310  | .0045            | .114  | 53.3               | 8.13                    |
| 70x70                     | .0106            | .269  | .0037            | .094  | 54.9               | 6.40                    |
| 76x76                     | .0095            | .241  | .0037            | .094  | 51.7               | 6.99                    |
| 80x80                     | .0088            | .224  | .0037            | .094  | 49.6               | 7.39                    |
| 90x90                     | .0076            | .193  | .0035            | .089  | 47.8               | 7.48                    |
| 94x94                     | .0071            | .180  | .0035            | .089  | 45.0               | 7.84                    |
| 105x105                   | .0065            | .165  | .0030            | .076  | 46.9               | 6.41                    |
| 120x120                   | .0058            | .147  | .0025            | .064  | 47.3               | 5.07                    |
| 165x165                   | .0042            | .107  | .0019            | .048  | 47.1               | 4.04                    |
| 200x200                   | .0034            | .0864 | .0016            | .0406 | 46.2               | 3.48                    |
| 230x230                   | .0029            | .0737 | .0014            | .0356 | 46.0               | 3.06                    |
| 400x400                   | .0016            | .0415 | .0009            | .022  | 35.1               | 2.90                    |

## REVERSE DUTCH WEAVE WIRE MESH

| Mesh        | Wire diameter (.um) |      | Micron Retention (.um) |          | Porosity<br>(%) | Weight<br>(kg/m2) | Cloth<br>Thickness<br>(mm) |
|-------------|---------------------|------|------------------------|----------|-----------------|-------------------|----------------------------|
|             | Warp                | Weft | Nominal                | Absolute |                 |                   |                            |
| 720X140-150 | 35                  | 110  | 15                     | 16-20    | 52              | .65-.70           | .15-.18                    |
| 630X125-130 | 42                  | 125  | 17                     | 22-26    | 53              | .75-.85           | .20-.22                    |
| 600X100-105 | 42                  | 140  | 25                     | 34-38    | 57              | .75-.80           | .22-.23                    |
| 280X60-70   | 90                  | 200  | 40                     | 54-60    | 56              | 1.34-1.55         | .38-.40                    |
| 175X40-50   | 150                 | 300  | 60                     | 65-72    | 55              | 2.1-2.40          | .57-.60                    |
| 130X30-35   | 200                 | 380  | 80                     | 95-105   | 57              | 2.7-3.10          | .77-.80                    |
| 175X37      | -                   | -    | 85                     | 100-106  | 54              | 2.10              | .57                        |
| 170X40      | -                   | -    | 90                     | 106-118  | 54              | 2.10              | .57                        |
| 260X40      | -                   | -    | 125                    | 112-125  | 54              | 2.25              | .62                        |
| 84X14       | -                   | -    | -                      | 450-530  | 62              | 3.50              | 1.15                       |

## MESH TO MICRON CONVERSION

| U.S. MESH | INCHES | MICRONS | MILLIMETERS |
|-----------|--------|---------|-------------|
| 3         | 0.2650 | 6730    | 6.730       |
| 4         | 0.1870 | 4760    | 4.760       |
| 5         | 0.1570 | 4000    | 4.000       |
| 6         | 0.1320 | 3360    | 3.360       |
| 7         | 0.1110 | 2830    | 2.830       |
| 8         | 0.0937 | 2380    | 2.380       |
| 10        | 0.0787 | 2000    | 2.000       |
| 12        | 0.0661 | 1680    | 1.680       |
| 14        | 0.0555 | 1410    | 1.410       |
| 16        | 0.0469 | 1190    | 1.190       |
| 18        | 0.0394 | 1000    | 1.000       |
| 20        | 0.0331 | 841     | 0.841       |
| 25        | 0.0280 | 707     | 0.707       |
| 30        | 0.0232 | 595     | 0.595       |
| 35        | 0.0197 | 500     | 0.500       |
| 40        | 0.0165 | 400     | 0.400       |
| 45        | 0.0138 | 354     | 0.354       |
| 50        | 0.0117 | 297     | 0.297       |
| 60        | 0.0098 | 250     | 0.250       |
| 70        | 0.0083 | 210     | 0.210       |
| 80        | 0.0070 | 177     | 0.177       |
| 100       | 0.0059 | 149     | 0.149       |
| 120       | 0.0049 | 125     | 0.125       |
| 140       | 0.0041 | 105     | 0.105       |
| 170       | 0.0035 | 88      | 0.088       |
| 200       | 0.0029 | 74      | 0.074       |
| 230       | 0.0024 | 63      | 0.063       |
| 270       | 0.0021 | 53      | 0.053       |
| 325       | 0.0017 | 44      | 0.044       |
| 400       | 0.0015 | 37      | 0.037       |

## Contact Us



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