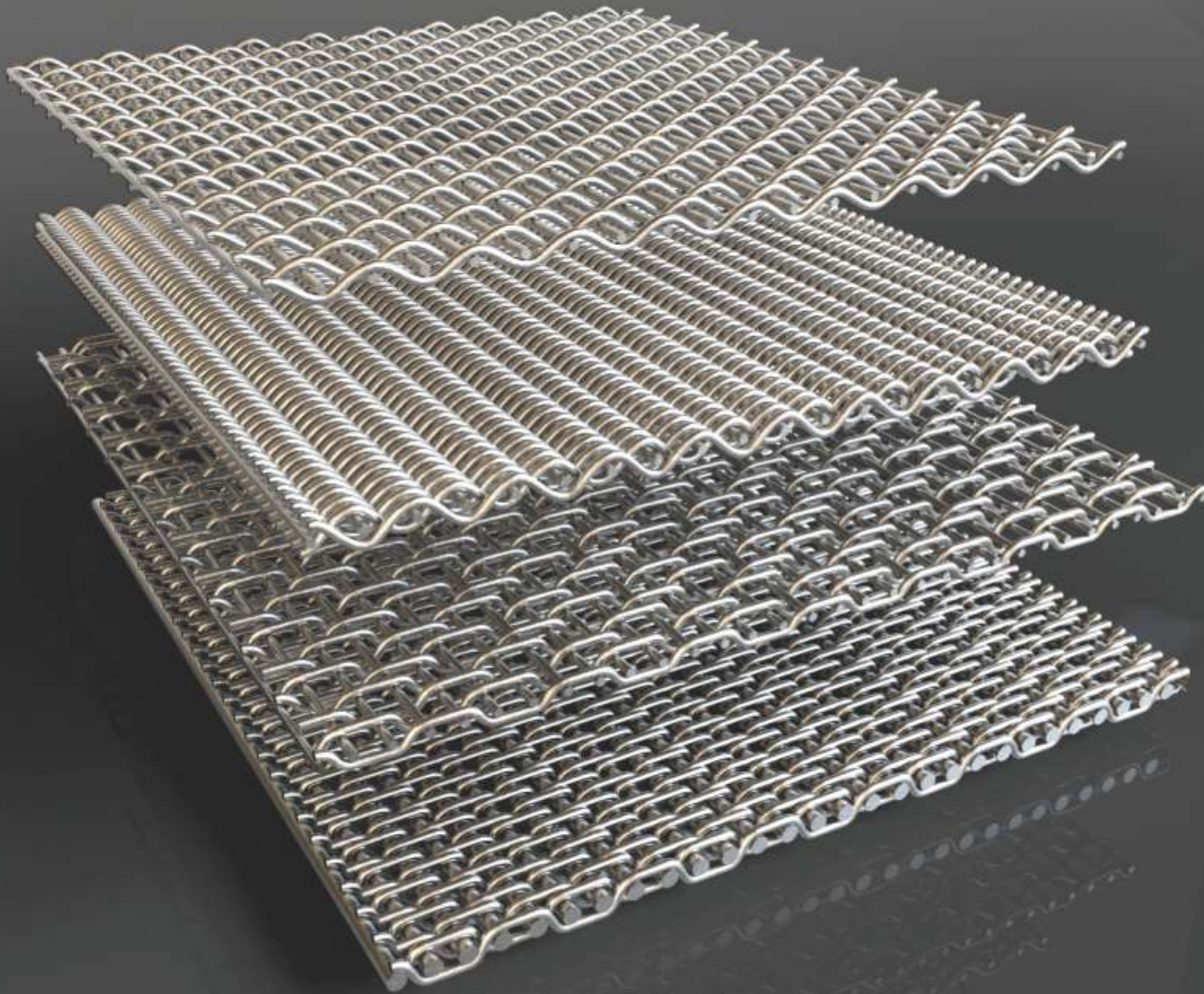




# Banaraswala

Metal Crafts

Wire Mesh Technical Catalogue

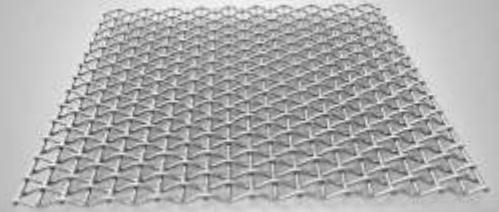
Wire mesh is primarily used as industrial filters in the application of filters, strainers, baskets, sieves and separator. Wire meshes are available in the below materials.

- Stainless Steel
- Galvanized Iron
- Nylon
- Fiber
- Brass
- Phosphor Bronze
- Copper

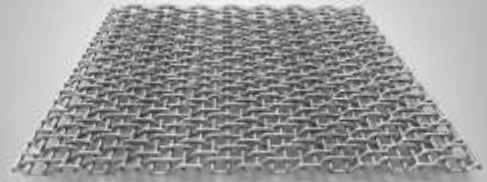
We stock wire mesh from 5mm openings to 5 microns in different standard widths. We also undertake custom manufacturing of wire mesh in different sizes as per client requirements

Wire Mesh are readily available in the form of rolls, cut piece, round discs and can also be customized as per requirement. Plain weave, Twilled weave, Plain Dutch Weave & Twilled Dutch Weave are the different types of weave.

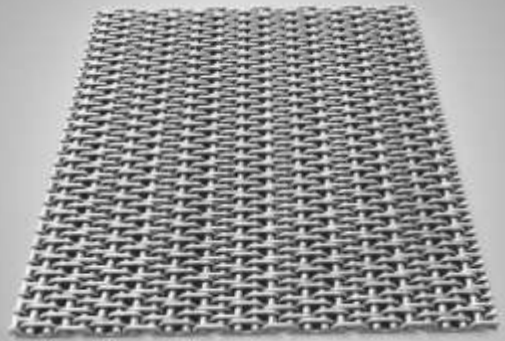
Plain Weave



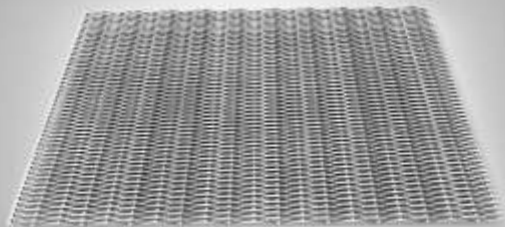
Twilled Weave



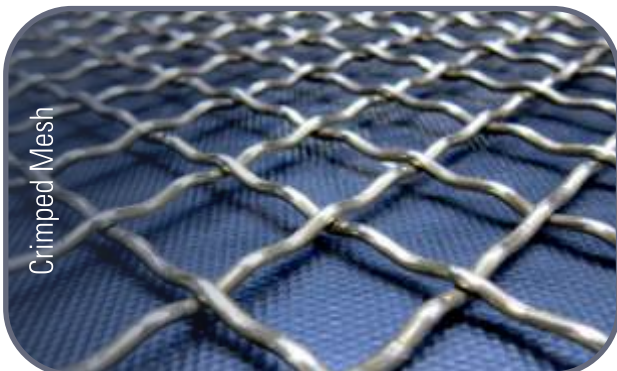
Twilled Dutch Weave



Plain Dutch Weave



Crimped Mesh





Stated below are the technicals of the Plain Weave wire Mesh. These items are mostly available in stock in standard Width sizes. Any special requirement can be manufactured to order. The standard material for these meshes are SS 304, SS 304L, SS 316, SS 316L & SS 310

| Mesh | Diameter of wire |       | Opening in MM | Approx Open Area % |
|------|------------------|-------|---------------|--------------------|
|      | SWG              | MM    |               |                    |
| 1    | 10               | 3.25  | 22.2          | 76%                |
| 1    | 12               | 2.64  | 22.8          | 80%                |
| 2    | 10               | 3.25  | 9.5           | 55%                |
| 2    | 12               | 2.64  | 10.1          | 63%                |
| 2    | 14               | 2.03  | 10.7          | 71%                |
| 3    | 12               | 2.64  | 5.8           | 47%                |
| 3    | 14               | 2.03  | 6.4           | 58%                |
| 3    | 16               | 1.63  | 6.8           | 65%                |
| 4    | 14               | 2.03  | 4.3           | 46%                |
| 4    | 16               | 1.63  | 4.7           | 55%                |
| 4    | 18               | 1.22  | 5.1           | 65%                |
| 4    | 20               | 0.91  | 5.4           | 73%                |
| 5    | 14               | 2.03  | 3.1           | 36%                |
| 5    | 16               | 1.63  | 3.5           | 46%                |
| 5    | 18               | 1.22  | 3.9           | 58%                |
| 6    | 16               | 1.63  | 2.6           | 38%                |
| 6    | 18               | 1.22  | 3.0           | 51%                |
| 6    | 20               | 20.91 | 3.3           | 62%                |
| 8    | 16               | 1.63  | 1.5           | 24%                |
| 8    | 18               | 1.22  | 2.0           | 38%                |
| 8    | 20               | 0.91  | 2.3           | 51%                |
| 8    | 22               | 0.71  | 2.5           | 60%                |
| 8    | 24               | 0.56  | 2.6           | 68%                |

| Mesh | Diameter of wire |      | Opening in MM | Approx Open Area % |
|------|------------------|------|---------------|--------------------|
|      | SWG              | MM   |               |                    |
| 10   | 22               | 0.71 | 1.8           | 52%                |
| 10   | 24               | 0.56 | 2.0           | 61%                |
| 12   | 22               | 0.71 | 1.4           | 44%                |
| 12   | 24               | 0.56 | 1.6           | 54%                |
| 12   | 26               | 0.46 | 1.7           | 61%                |
| 14   | 24               | 0.56 | 1.3           | 48%                |
| 14   | 26               | 0.46 | 1.4           | 56%                |
| 16   | 24               | 0.56 | 1.0           | 42%                |
| 16   | 26               | 0.46 | 1.1           | 50%                |
| 16   | 28               | 0.37 | 1.2           | 59%                |
| 16   | 30               | 0.31 | 1.3           | 65%                |
| 16   | 32               | 0.27 | 1.3           | 69%                |
| 18   | 24               | 0.56 | 0.9           | 36%                |
| 18   | 26               | 0.46 | 1.0           | 45%                |
| 18   | 28               | 0.37 | 1.0           | 54%                |
| 18   | 30               | 0.31 | 1.1           | 61%                |
| 18   | 32               | 0.27 | 1.1           | 65%                |
| 20   | 24               | 0.56 | 0.7           | 31%                |
| 20   | 26               | 0.46 | 0.8           | 41%                |
| 20   | 28               | 0.3  | 0.9           | 50%                |
| 20   | 30               | 0.31 | 1.0           | 57%                |
| 24   | 28               | 0.37 | 0.7           | 42%                |
| 24   | 30               | 0.31 | 0.7           | 50%                |

| Mesh | Diameter of wire |       | Opening in MM | Approx Open Area % |
|------|------------------|-------|---------------|--------------------|
|      | SWG              | MM    |               |                    |
| 30   | 28               | 0.37  | 0.5           | 32%                |
| 30   | 30               | 0.31  | 0.5           | 40%                |
| 30   | 32               | 0.27  | 0.6           | 46%                |
| 40   | 32               | 0.27  | 0.4           | 33%                |
| 40   | 34               | 0.23  | 0.4           | 41%                |
| 40   | 36               | 0.19  | 0.4           | 49%                |
| 50   | 34               | 0.23  | 0.3           | 30%                |
| 50   | 36               | 0.19  | 0.3           | 39%                |
| 50   | 38               | 0.15  | 0.4           | 50%                |
| 60   | 36               | 0.19  | 0.2           | 30%                |
| 60   | 38               | 0.15  | 0.3           | 42%                |
| 80   | 40               | 0.12  | 0.2           | 39%                |
| 80   | 42               | 0.1   | 0.2           | 47%                |
| 100  | 42               | 0.1   | 0.2           | 37%                |
| 100  | 44               | 0.08  | 0.2           | 47%                |
| 120  | 44               | 0.08  | 0.1           | 39%                |
| 150  | 45               | 0.047 | 0.1           | 34%                |
| 150  | 46               | 0.06  | 0.1           | 42%                |
| 200  | 47               | 0.05  | 0.1           | 37%                |
| 250  | 48               | 0.04  | 0.1           | 37%                |
| 300  | 48               | 0.04  | 0.045         | 28%                |
| 325  | -                | 0.035 | 0.043         | 30%                |
| 400  | 49               | 0.03  | 0.034         | 28%                |
| 500  | 50               | 0.025 | 0.026         | 26%                |

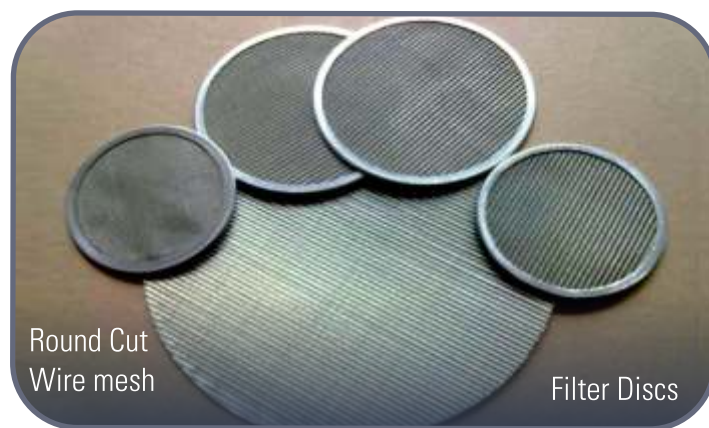
Stated below are the technical specification of dutch and twill weave wire mesh. These mesh can be manufactured in different widths in SS 304 and SS 316

| Weave Type    | Mesh     | Wire Dia in MM | Nominal Micron Rating | Absolute Micron Rating |
|---------------|----------|----------------|-----------------------|------------------------|
| Twill Dutch   | 325X2300 | 0.035X0.025    | 2                     | 7-8                    |
| Twill Dutch   | 200X1400 | 0.07X0.04      | 5                     | 11-13                  |
| Twill Dutch   | 165X1400 | 0.07X0.04      | 10                    | 15-18                  |
| Twill Dutch   | 165X800  | 0.07X0.04      | 15                    | 24-28                  |
| Twill Dutch   | 200X600  | 0.06X0.045     | 20                    | 40-45                  |
| Plain Dutch   | 100X600  | 0.14X0.04      | 25                    | 35-38                  |
| Plain Dutch   | 80X400   | 0.11X0.06      | 35                    | 38-45                  |
| Twill Dutch   | 80X700   | 0.12X0.07      | 25                    | 34-36                  |
| Plain Dutch   | 50X250   | 0.14X0.11      | 40                    | 56-63                  |
| Plain Dutch   | 40X200   | 0.2X0.14       | 56                    | 75-80                  |
| Plain & Twill | 30X150   | 0.23X0.18      | 95                    | 95-110                 |
| Plain Dutch   | 24X110   | 0.35X0.25      | 80                    | 112-125                |
| Plain Dutch   | 12X64    | 0.6X0.42       | 200                   | NA                     |

| Equivalent Mesh in Different Standards |                |                    |              |                     |               |                    |
|----------------------------------------|----------------|--------------------|--------------|---------------------|---------------|--------------------|
| Opening in Micron                      | A.S.T.M - 1961 |                    | Tyler - 1961 |                     | B.S.S. - 1962 |                    |
|                                        | Mesh No.       | Aperture in Micron | Mesh No.     | Aperture in Microns | Mesh No.      | Aperture in Micron |
| 2400                                   | 8              | 2380               | 8            | 2362                | 7             | 2400               |
| 2000                                   | 10             | 2000               | 9            | 1981                | 8             | 2000               |
| 1600                                   | 12             | 1680               | 10           | 1651                | -             | 1590               |
| 1400                                   | 14             | 1400               | 12           | 1397                | 12            | 1400               |
| 1200                                   | 16             | 1190               | 14           | 1168                | 14            | 1200               |
| 1000                                   | 18             | 1000               | 16           | 991                 | 16            | 1000               |
| 850                                    | 20             | 841                | 20           | 833                 | 18            | 850                |
| 800                                    | -              | -                  | -            | -                   | 24            | 790                |
| 750                                    | -              | -                  | -            | -                   | -             | -                  |
| 700                                    | 25             | 707                | 24           | 701                 | 22            | 710                |
| 600                                    | 30             | 595                | 28           | 589                 | 25            | 600                |
| 500                                    | 35             | 500                | 32           | 495                 | 300           | 500                |
| 400                                    | 40             | 420                | 35           | 417                 | 36            | 420                |
| 350                                    | 45             | 354                | 42           | 351                 | 44            | 355                |
| 300                                    | 50             | 297                | 48           | 295                 | 52            | 300                |
| 250                                    | 60             | 250                | 60           | 246                 | 60            | 250                |
| 200                                    | 70             | 210                | 65           | 208                 | 72            | 210                |
| 175                                    | 80             | 177                | 80           | 175                 | 85            | 180                |
| 150                                    | 100            | 149                | 1006         | 147                 | 100           | 150                |
| 125                                    | 120            | 125                | 115          | 124                 | 120           | 125                |
| 100                                    | 140            | 105                | 150          | 104                 | 150           | 105                |
| 90                                     | 170            | 88                 | 170          | 88                  | 170           | 90                 |
| 75                                     | 200            | 74                 | 200          | 74                  | 200           | 75                 |
| 65                                     | 230            | 63                 | 250          | 61                  | 240           | 63                 |
| 50                                     | 270            | 53                 | 270          | 53                  | 300           | 53                 |
| 45                                     | 325            | 44                 | 325          | 43                  | 360           | 45                 |
| 35                                     | 400            | 37                 | 400          | 38                  | -             | -                  |

| Stainless Steel Chemical & Mechanical Specifications |                    |         |        |        |        |       |       |       |
|------------------------------------------------------|--------------------|---------|--------|--------|--------|-------|-------|-------|
|                                                      | S.S.               | 202     | 302    | 304    | 304L   | 310   | 316   | 316L  |
| Chemical Composition                                 | Carbon             | 0.12    | 0.15   | 0.08   | 0.03   | 0.25  | 0.08  | 0.03  |
|                                                      | Manganese          | 5.5/7.5 | 2      | 2      | 2      | 2     | 2     | 2     |
|                                                      | Silicone           | 0.9     | 1      | 1      | 1      | 1.5   | 1     | 1     |
|                                                      | Chromium           | 16/18   | 17/19  | 18/20  | 18/20  | 24/26 | 23/26 | 16/18 |
|                                                      | Nickel             | 0.5/4.0 | 8.0/10 | 8.0/12 | 8.0/12 | 19/22 | 10/14 | 10/14 |
|                                                      | Molybdenum         | 0.2     | -      | -      | -      | -     | 2/3   | 2/3   |
|                                                      | Phosphorus         | 0.06    | 0.045  | 0.045  | 0.045  | 0.045 | 0.045 | 0.045 |
|                                                      | Nitrogen           | 0.25    | -      | -      | -      | -     | -     | -     |
|                                                      | Sulphur            | -       | 0.03   | 0.03   | 0.03   | 0.03  | 0.03  | 0.03  |
| Mechanical Properties                                | Tensile Strength   | 105     | 90     | 85     | 60     | 95    | 85    | 78    |
|                                                      | 2 % Yield Strength | 55      | 37     | 35     | 30     | 40    | 35    | 30    |
|                                                      | Elongation in 2'   | 55      | 55     | 55     | 55     | 45    | 55    | 55    |
|                                                      | Rockwell           | 90      | 82     | 80     | 76     | 87    | 80    | 76    |
|                                                      | Brinell            | 185     | 155    | 150    | 140    | 170   | 150   | 145   |

### Customized Products



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Wire mesh

Filter Discs

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