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QIUSUO

# INDUSTRIAL WOVEN WIRE CLOTH CATALOGUE

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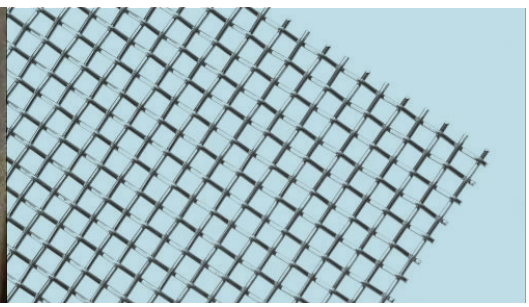
# INDUSTRIAL WOVEN WIRE CLOTH

Wire mesh is an industrial product made from interlocking metal wires. Wire mesh is sometimes also referred to as wire cloth, though they are not the same product in the strictest sense. Technically, wire cloth refers to those interlocking metal wire products that have been welded together in rolls on a loom, while wire mesh refers to those wires that have been sintered or welded together with evenly spaced, regular openings.

We manufacture wire cloth/mesh in all meshes from larger opening to fine mesh filter cloth, with various materials for your applications required. And, we are happy to supply small or larger quantity in roll stock, cut-to-size, slit rolls, aggregate screens, discs, circles, heavy woven mesh or custom weaves. Most standard specification are in stock.

## Definitions & Formulae of Wire Cloth

| | |
|---|---|
| Material | 304, 304L, 316, 316L,321,904L, Steel, Aluminum, Alloy 20, Alloy 400, Alloy 600, Alloy 601,Alloy 625,Alloy 800, Alloy 825, Alloy C22, Alloy 276, Nickel, Inconel, Bronze, Brass, Copper, Titanium, Chromium, Incoloy, Silver, Monel, Molybdenum, Chromium and etc. |
| Aperture (w) | Space between adjacent parallel wires, in mm. (25.4 / n) – d<br>0.003 to 25mm |
| Wire Diameter (d) | Diameter of wire before weaving, in mm. 0.02mm to 8mm |
| Mesh Count (n) | Number of apertures per lineal inch measured from the center of one wire to a point 1 inch (25.4 mm) distant. 25.4/(W+D) |
| Pitch (p) | Distance between the centres of two adjacent wires in mm. w + d or 25.4 / n |
| Warp wire | Wires running lengthwise in the cloth as woven. |
| Weft wire | Wires running crosswise in the cloth as woven. |
| Open Area % S% | The fractional open surface area of the wire cloth in the flow direction. $S=100w^2/(W+D^2)$(applicable for square meshes only). |
| Porosity | The fractional void volume of the mesh. |
| Roll width | up to 6.0m |
| Scope | standard roll, or customer's requirement |
| Weaving Patterns | Plain Weave, Twill Weave, Dutch weave, Twilled Dutch Weave, Reverse Dutch Weave, Five-Heddle Weave Crimped weaving and etc. |

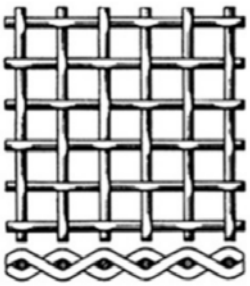


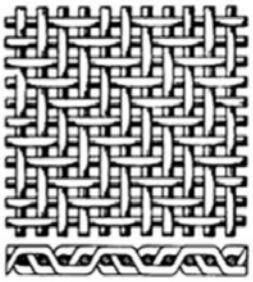
# STAINLESS STEEL WIRE CLOTH

Stainless Steel Wire Cloth

Plain Weave& Twill Weave

Square Holes

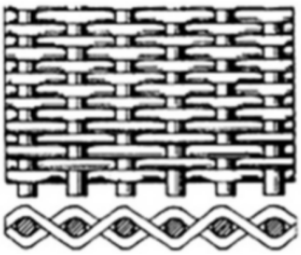




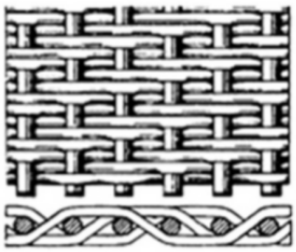
| Mesh per inch | Wire Diameter | | Width of Opening/ Aperture | | Open Area | Oprox weight for stainless steel |
|---|---|---|---|---|---|---|
| | mm | inches | mm | inches | % | (LB) /100 Square Foot |
| 1mesh x 1mesh | 2 | 0.08 | 23.37 | 0.92 | 84.6 | 41.1 |
| 2mesh x 2mesh | 1.6 | 0.063 | 11.1 | 0.437 | 76.4 | 51.2 |
| 3mesh x 3mesh | 1.37 | 0.054 | 7.09 | 0.279 | 70.1 | 56.7 |
| 4mesh x 4mesh | 1.6 | 0.063 | 4.75 | 0.187 | 56 | 104.8 |
| 4mesh x 4mesh | 1.19 | 0.047 | 5.16 | 0.203 | 65.9 | 57.6 |
| 5mesh x 5mesh | 1 | 0.041 | 4.04 | 0.159 | 63.2 | 54.9 |
| 6mesh x 6mesh | 0.89 | 0.035 | 3.35 | 0.132 | 62.7 | 48.1 |
| 8mesh x 8mesh | 0.71 | 0.028 | 2.46 | 0.097 | 60.2 | 41.1 |
| 10mesh x 10mesh | 0.64 | 0.025 | 1.91 | 0.075 | 56.3 | 41.2 |
| 10mesh x 10mesh | 0.51 | 0.02 | 2.03 | 0.08 | 64 | 26.1 |
| 12mesh x 12mesh | 0.58 | 0.023 | 1.52 | 0.06 | 51.8 | 42.2 |
| 12mesh x 12mesh | 0.5 | 0.02 | 1.6 | 0.063 | 57.2 | 31.6 |
| 14mesh x 14mesh | 0.58 | 0.023 | 1.22 | 0.048 | 45.2 | 49.8 |
| 14mesh x 14mesh | 0.5 | 0.02 | 1.3 | 0.051 | 51 | 37.2 |
| 16mesh x 16mesh | 0.45 | 0.018 | 1.13 | 0.0445 | 50.7 | 34.5 |
| 18mesh x 18mesh | 0.43 | 0.017 | 0.98 | 0.0386 | 48.3 | 34.8 |
| 20mesh x 20mesh | 0.5 | 0.02 | 0.76 | 0.03 | 36 | 55.2 |
| 20mesh x 20mesh | 0.4 | 0.016 | 0.86 | 0.034 | 46.2 | 34.4 |
| 24mesh x 24mesh | 0.35 | 0.014 | 0.7 | 0.0277 | 44.2 | 31.8 |
| 30mesh x 30mesh | 0.33 | 0.013 | 0.52 | 0.0203 | 37.1 | 34.8 |
| 30mesh x 30mesh | 0.3 | 0.012 | 0.54 | 0.0213 | 40.8 | 29.4 |
| 30mesh x 30mesh | 0.23 | 0.009 | 0.62 | 0.0243 | 53.1 | 16.1 |
| 35mesh x 35mesh | 0.28 | 0.011 | 0.45 | 0.0176 | 37.9 | 29 |
| 40mesh x 40mesh | 0.25 | 0.01 | 0.38 | 0.015 | 36 | 27.6 |
| 50mesh x 50mesh | 0.23 | 0.009 | 0.28 | 0.011 | 30.3 | 28.4 |
| 50mesh x 50mesh | 0.2 | 0.008 | 0.31 | 0.012 | 36 | 22.1 |
| 60mesh x 60mesh | 0.18 | 0.0075 | 0.23 | 0.0092 | 30.5 | 23.7 |
| 60mesh x 60mesh | 0.18 | 0.007 | 0.25 | 0.0097 | 33.9 | 20.4 |
| 70mesh x 70mesh | 0.165 | 0.0065 | 0.2 | 0.0078 | 29.8 | 20.8 |
| 80mesh x 80mesh | 0.165 | 0.0065 | 0.15 | 0.006 | 23 | 23.2 |
| 80mesh x 80mesh | 0.14 | 0.0055 | 0.18 | 0.007 | 31.4 | 16.9 |
| 90mesh x 90mesh | 0.12 | 0.005 | 0.16 | 0.0061 | 30.1 | 15.8 |
| 100mesh x 100mesh | 0.11 | 0.0045 | 0.14 | 0.0055 | 30.3 | 14.2 |
| 100mesh x 100mesh | 0.1 | 0.004 | 0.15 | 0.006 | 36 | 11 |
| 100mesh x 100mesh | 0.09 | 0.0035 | 0.17 | 0.0065 | 42.3 | 8.3 |
| 120mesh x 120mesh | 0.09 | 0.0037 | 0.1168 | 0.0064 | 30.7 | 11.6 |
| 150mesh x 150mesh | 0.063 | 0.0026 | 0.1041 | 0.0041 | 37.4 | 7.1 |
| 180mesh x 180mesh | 0.053 | 0.0023 | 0.0838 | 0.0033 | 34.7 | 6.7 |
| 200mesh x 200mesh | 0.053 | 0.0021 | 0.0737 | 0.0029 | 33.6 | 6.2 |
| 250mesh x 250mesh | 0.04 | 0.0016 | 0.061 | 0.0024 | 36 | 4.4 |
| 300mesh x 300mesh | 0.0381 | 0.0051 | 0.0457 | 0.0018 | 29.7 | 3.04 |
| 325mesh x 325mesh | 0.0356 | 0.0014 | 0.0432 | 0.0017 | 30 | 4.4 |
| 400mesh x 400mesh | 0.0254 | 0.001 | 0.033 | 0.0015 | 36 | 3.3 |
| 450mesh x 450mesh | 0.028 | 0.0011 | 0.032 | 0.0011 | 30 | 3.5 |
| 500mesh x 500mesh | 0.025 | 0.001 | 0.026 | 0.001 | 25 | 3.8 |
| 635mesh x 635mesh | 0.0203 | 0.008 | 0.0203 | 0.008 | 25 | 2.63 |

***Notes: All the above items of stainlsss steel material is in stock, special types can be customized made.***

# PLAIN DUTCH WEAVE
# STAINLESS STEEL WIRE CLOTH



Plain Dutch Weave

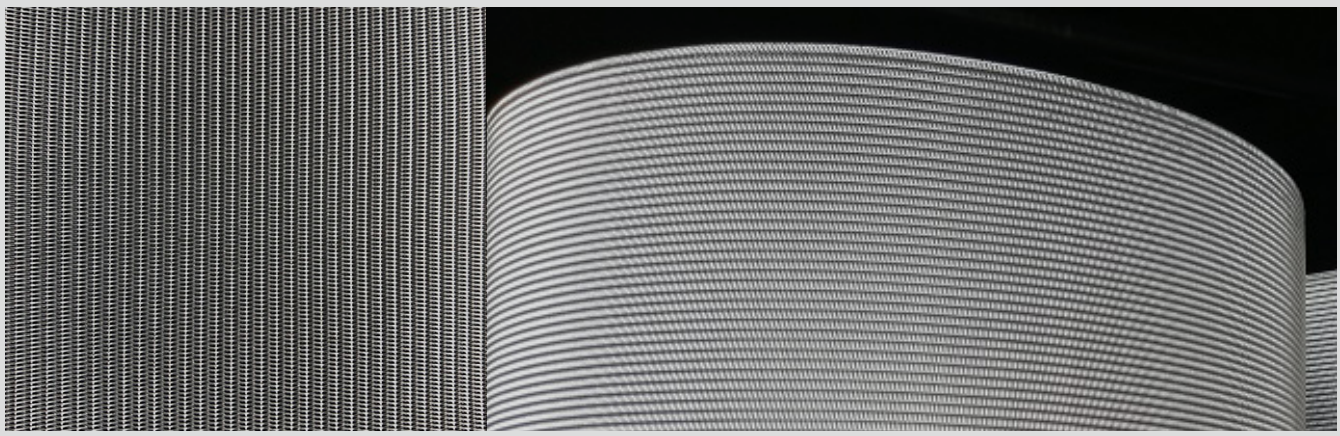


Twilled Dutch Weave

Dutch Weaving Filter Cloth

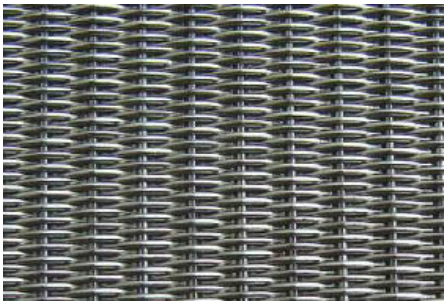
Plain Dutch Weave

| Mesh/Inch | Wire Dia. (MM) | Normal Opening | Material (AISI) |
|---|---|---|---|
| WarpxWeft | WarpxWeft | (μm) | |
| 7mesh x 44mesh | 0.71x 0.63 | 315 | 304 or 316 |
| 8mesh x 60mesh | 0.63 X 0.45 | 300 | 304 or 316 |
| 12mesh x 64mesh | 0.58x 0.40 | 210 | 304, 316 or steel |
| 24mesh x 110mesh | 0.36 x 0.25 | 150 | 304, 316 or steel |
| 4mesh x 88mesh | 0.50 x 0.33 | 200 | 304, 316 or steel |
| 30mesh x 150mesh | 0.23 x 0.18 | 100 | 304, 316 or steel |
| 40mesh X 200mesh | 0.18 X 0.13 | 80 | 304 or 316 |
| 50mesh x 250mesh | 0.14 x 0.11 | 60 | 304 or 316 |
| 80mesh x 400mesh | 0.10 x 0.065 | 40 | 304 or 316 |
| 78mesh x 700mesh | 0.11 x 0.08 | 30 | 304 or 316 |



# TWILL DUTCH WEAVE WIRE CLOTH

The term "Twill" indicates the warp and weft wires pass alternately over two and under two wires. The term "Dutch" refers to the use of a heavier warp wire in conjunction with a lighter weft wire . In a Twill Dutch Weave the weft wires are drawn up so tightly that there is always a weft wire above and below the warp wires, creating a weave with the warp wires completely covered. The flow-pass geometry is extremely tortuous, allowing reasonable flow rates while insuring excellent particle size retention.



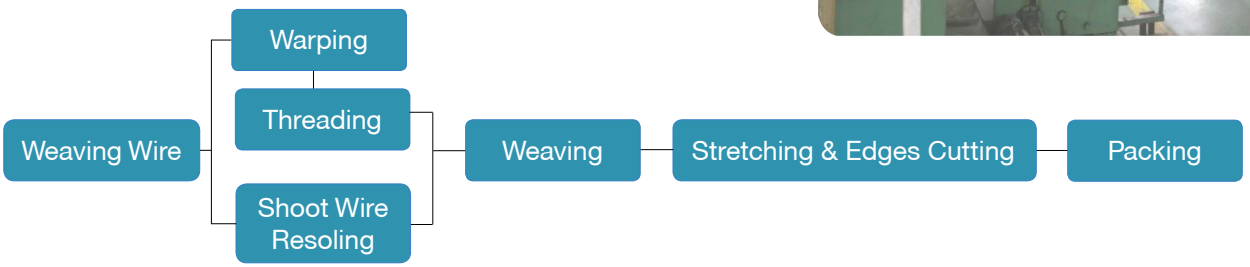
| Dutch Weaving Filter Cloth , Plain Dutch Weave | | | |
|---|---|---|---|
| Mesh | Wire Dia. (MM) | Normal Opening(μm) | Material (AISI) |
| 80mesh x 700mesh | 0.11x 0.08 | 30 | 304 , 316, 316L |
| 165mesh x 800mesh | 0.07 x 0.05 | 20 | 304 , 316, 316L |
| 165mesh x 1400mesh | 0.063 x 0.04 | 15 | 304 , 316, 316L |
| 200mesh x 600mesh | 0.05 x 0.032 | 10 | 304 , 316, 316L |
| 200mesh x 1400mesh | 0.05 x 0.032 | 10 | 304 , 316, 316L |
| 250mesh x 1600mesh | 0.05 x 0.032 | 8 | 304 , 316, 316L |
| 280mesh x 2200mesh | 0.05 x 0.032 | 7 | 304 , 316, 316L |
| 300mesh x 2100mesh | 0.036 x 0.025 | 6 | 316L |
| 325mesh x 2300mesh | 0.035 x 0.025 | 4 | 316L |
| 400mesh x 2800mesh | 0.030 x 0.018 | 3 | 316L |

# REVERSE DUTCH WEAVE WIRE CLOTH

Reverse Dutch Weave Wire Cloth is one of special weave wire cloth used in the filtration filed of plastic industry, chemical industry, etc. Comparing with the normal Plain Dutch weave mesh, the coarser wire in the weft direction and the finer wire in the warp direction, this weave can supply better filtration rate.

| Mesh per inch | Wire Dia. (MM) | Material (AISI) |
|---|---|---|
| 75mesh x 15mesh | 0.45x 0.5 | 304 , 316, 316L |
| 120mesh x 15mesh | 0.35x 0.5 | 304 , 316, 316L |
| 132mesh x 17mesh | 0.32x 0.45 | 304 , 316, 316L |
| 150mesh x 18mesh | 0.3 x 0.45 | 304 , 316, 316L |
| 152mesh x 24mesh | 0.28 x 0.4 | 304 , 316, 316L |
| 160mesh x 18mesh | 0.27 x 0.45 | 304 , 316, 316L |
| 180mesh x 18mesh | 0.26 x 0.45 | 304 , 316, 316L |
| 200mesh x 40 mesh | 0.17 x 0.27 | 304 , 316, 316L |
| 260mesh x 40mesh | 0.15 x 0.27 | 304 , 316, 316L |
| 300mesh x 40mesh | 0.14 x 0.25 | 304 , 316, 316L |

# PRODUCTION PROCESS & QUALITY CONTROL




**Inspection standard of the wire**

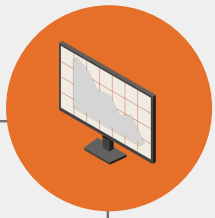
We check the wire according to the national standard (GB5330-85) and our enterprise regulation about raw material defects and relative solution.

**Inspection standard of the mesh**

We check quality of end products according to China National Standard GB/ T17492-1998, equivalent ISO9044-1990, and our standard.

**The major checking items of wire mesh**

1. We check the basic data:
   wire diameter, mesh counts, roll width and roll length
2. The surface condition:
   opening, color, flat or not and defects.
3. The edge of wire mesh should be neat and without defects.



**Checking standard if metal reed**

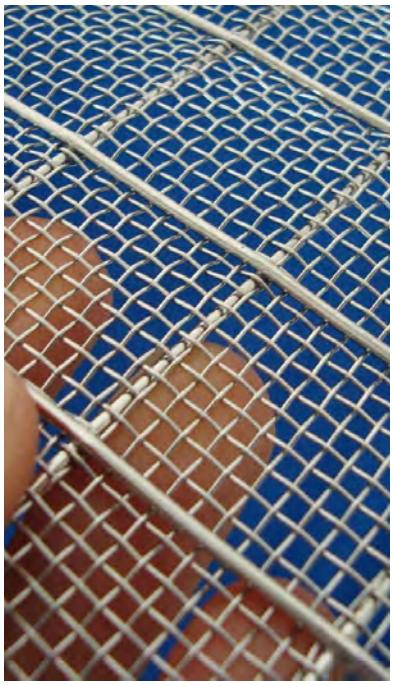
The steel reed should be flat and clean, with correct wire going, the inside height, inside length and thickness should be correct.

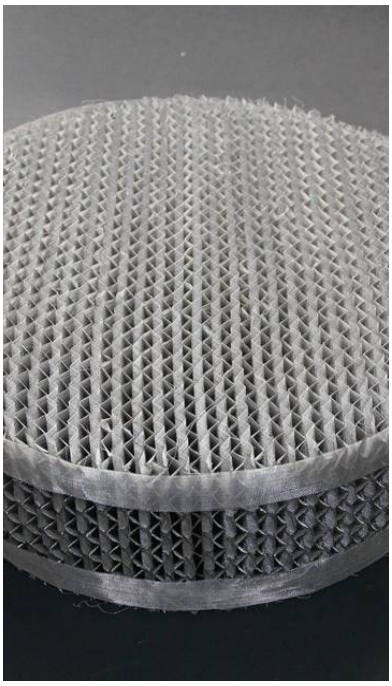
**General Packing**

Stainless steel woven wire mesh is rolled around paper tube first, moisture-proof paper outside or plastic fabrics. Customized packing is available.

# GENERAL INDUSTRIAL APPLICATION

Stainless steel wire mesh/cloth with its excellent resistance against acid, alkali, heat and corrosion, find extensive uses in processing of oils, chemicals, food, pharmaceuticals, also sorting and screening of solid, liquid and gas in mine, metallurgy, airspace, machine making, etc.





# ORDER TIPS

When ordering or enquiring please provide the following information:

- Mesh count or aperture size (and/or open area)
- Wire diameter(s)
- Type and weave of cloth Alloy type
- Number and size of rolls or pieces Application if relevant
- Any tolerances, drawings and/or special instructions Shipping, packing and documentation requirements

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