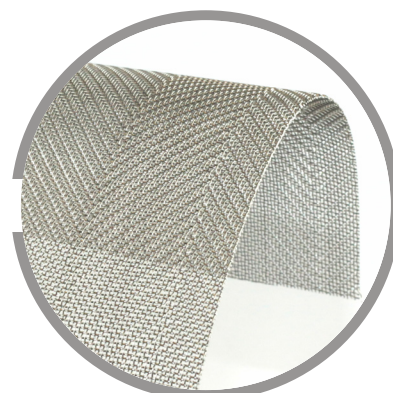
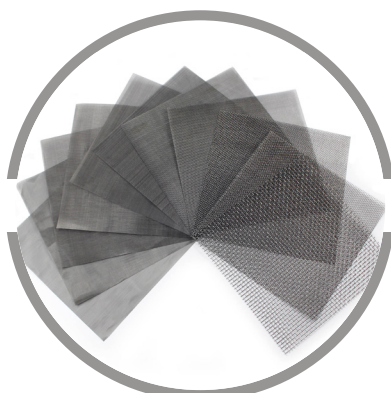
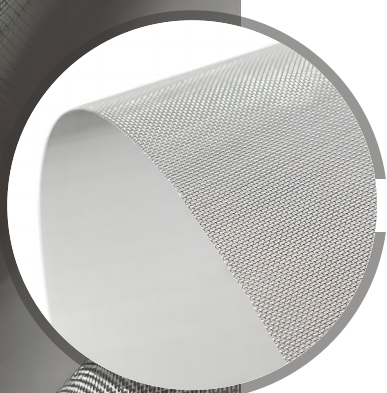


# PRODUCT WOVEN MESH CATALOGUE



**Industry-Leading Woven  
Mesh Manufacturer**

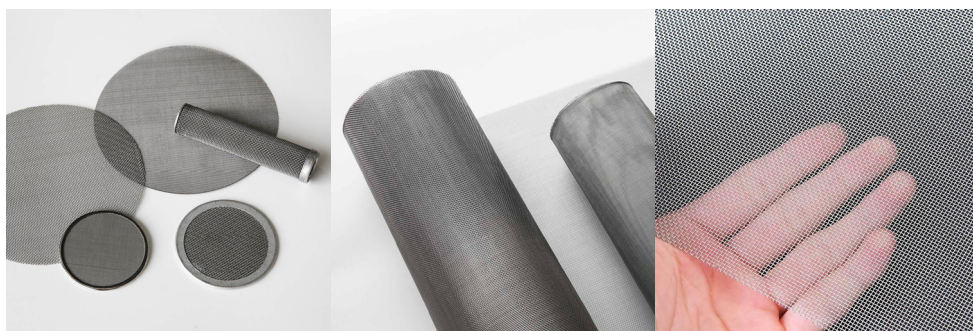
Stainless steel woven mesh and black wire cloth  
for screening and filtration



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# Get Close to EASTAR

## Industry-Leading Woven Mesh Manufacturer

EASTAR FILTRATION INDUSTRY CO., LTD., a subsidiary of Anping Songjia Wire Mesh Co., Ltd., has over 10 years of experience in manufacturing and exporting various wire meshes and filters. We strive to enhance our customers' purchasing experience through excellent service and continuous technological innovation.

Our products include stainless steel woven mesh, black wire cloth, and deep processing wire mesh products such as filter discs, filter cartridges, and filter elements. We are committed to providing high-quality wire mesh products to our customers through advanced production technology and strict quality control.

Join us to experience first-class product quality and customer service, and explore broader application prospects together.



### Core Competence



#### Rich Experience

We have over 10 years of experience in manufacturing woven mesh. Our workers are very familiar with the material properties and weaving techniques, ensuring that each wire is woven accurately and evenly.



#### Quality Assurance

Every link from raw materials to delivery strictly complies with international standards and our company's quality control system requirements, ensuring that products meet market demands and customer needs.



#### Customer First

We place customer needs at the center of our operations, prioritizing customer satisfaction as the top focus of our business. Customer needs drive the direction of our efforts.



#### On-Time Delivery

We cooperate with reliable freight agents to ensure that our woven mesh products are delivered safely and efficiently. We closely monitor the logistics information of each batch of goods and confirm customer satisfaction.



## Our Workshop

Our workshop utilizes the most advanced equipment and traditional weaving techniques to ensure that every piece of woven mesh meets the highest quality standards. Every mesh opening reflects our pursuit of perfection and attention to detail.





## Our Equipment



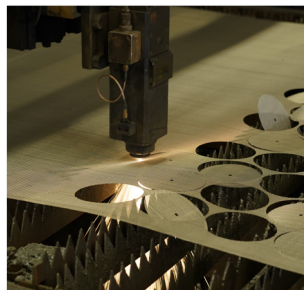
We not only have equipment for producing woven mesh but also possess a wide range of processing equipment and capacities, from simple cutting and slitting to complex custom designs.

We can fabricate woven mesh into round, square, or specially shaped pieces to meet specific application requirements through techniques such as cutting, stamping, welding, and edge finishing.

- Slitting
- Laser Cutting
- Stamping
- Edging
- Forming
- Spot Welding
- Edge Welding
- Pleating



Slitting machine



Laser cutting machine



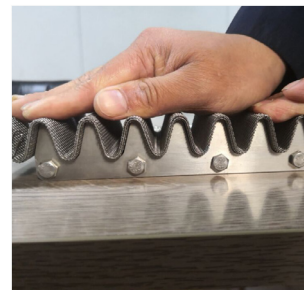
Punching machine



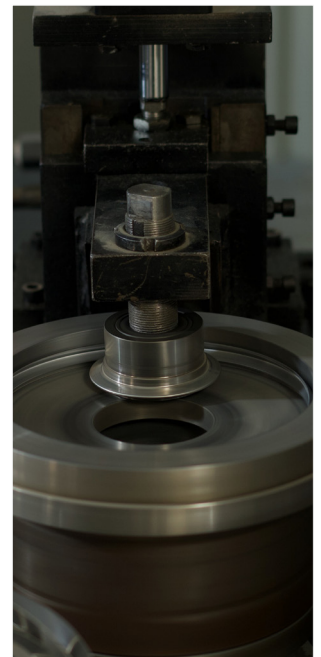
Spot welding machine



Laser welding machine



Pleating machine

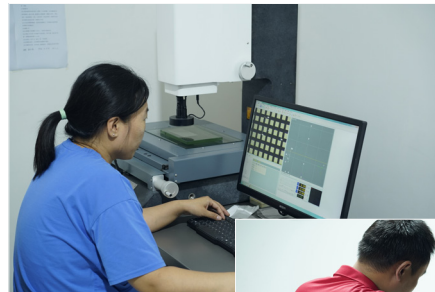


Edging machine



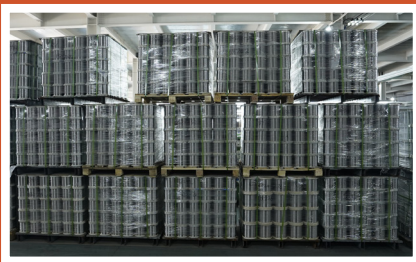
## Our Workers

We have a team of professional and experienced woven mesh workers who are dedicated to ensuring that each woven mesh product meets the highest quality standards.



## Our Warehouse

We have a comprehensive warehouse management system in place, with zoned management in our storage facility. Each item is assigned its own label for easy tracking and management.



Raw material area



Finished products area



Finished products area



## Quality Control

Quality control is a critical process to ensure that products meet international standards and customer expectations. In addition, it is also the cornerstone of maintaining brand reputation and market competitiveness. Our company consistently adheres to the highest quality standards, with meticulous control at every step, from raw material selection to finished product testing. Every product represents our pursuit of excellence and our commitment to customers.



### **Selected Stainless Steel Raw Materials**

Our raw materials are sourced from industry-leading companies to ensure the reliability of materials.



### **Strict Key Parameter Inspection**

We strictly adhere to corporate principles and international production standards to ensure that all key parameters of our woven mesh meet the specified requirements.



### **Precise Detection of Wire Diameter**

We rigorously demand attention to every detail in the weaving of wire mesh, where absolute focus shapes our professional standards.



### **Efficiently Managed Storage System**

We divide our warehouse into different areas for zoned management, ensuring our products remain in optimal condition and are always ready for loading and delivery.



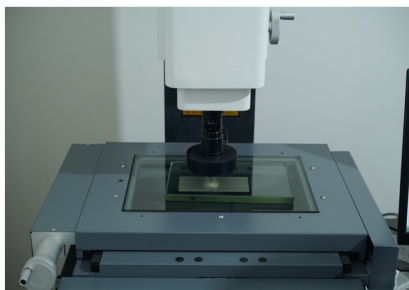
### **Exquisite and Secure Packaging**

Our woven mesh products are typically packed in plastic film. For special-purpose products, we use kraft paper packaging to prevent damage during transportation.



### **Professional Pre-Sales & After-Sales Service**

We provide comprehensive services and support to help customers understand product performance, usage, and installation methods, and we respond quickly to customer inquiries.



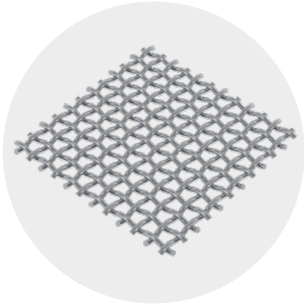
# Glossary & Weave Types

## Core Competence

|                            |   |                                                                                                                                                                                   |
|----------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mesh count</b>          | ● | The number of opening per lineal inch.                                                                                                                                            |
| <b>SWG</b>                 | ● | Standard wire gauge.                                                                                                                                                              |
| <b>Aperture</b>            | ● | The distance between two adjacent wires.                                                                                                                                          |
| <b>Diameter</b>            | ● | The thickness of the wire before weaving.                                                                                                                                         |
| <b>Pitch</b>               | ● | The distance between the middle point of two adjacent warp (weft) weft wires.                                                                                                     |
| <b>Open area</b>           | ● | The ratio of area of the aperture to the area of the mesh expressed in percentage terms.                                                                                          |
| <b>Warp wires</b>          | ● | All wires running lengthwise of the cloth as woven.                                                                                                                               |
| <b>Weft wires</b>          | ● | All wires running across the cloth as woven.                                                                                                                                      |
| <b>Tensile strength</b>    | ● | The maximum tensile stress that a material can withstand from the start of force application until it breaks during a tensile test..                                              |
| <b>Coarse mesh</b>         | ● | Typically refers to mesh with larger openings and larger wire diameter, usually with a mesh count below 20.                                                                       |
| <b>Fine mesh</b>           | ● | Typically refers to mesh with smaller openings and smaller wire diameter, usually with a mesh count above 100.                                                                    |
| <b>Weave type</b>          | ● | Way in which the warp and weft wires cross each other.                                                                                                                            |
| <b>Plain weave</b>         | ● | Woven mesh with warp and weft wires of the same diameter, alternating over and under each other.                                                                                  |
| <b>Twill weave</b>         | ● | Each warp wire alternately passes over and under two weft wires, and each weft wire alternately passes over and under two warp wires. Warp and weft wires have the same diameter. |
| <b>Dutch weave</b>         | ● | Woven mesh with warp and weft wires of different diameters, with larger warp wires and smaller weft wires.                                                                        |
| <b>Reverse dutch weave</b> | ● | Woven mesh with warp and weft wires of different diameters, with smaller warp wires and larger weft wires.                                                                        |



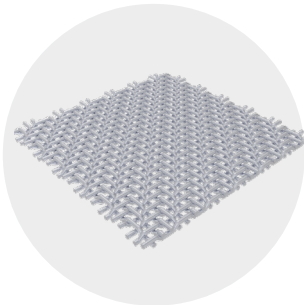
## Weave Types



### Plain Weave

It is woven by alternating one warp wire over and under one weft wire, forming a 90-degree angle. The warp and weft wires have the same diameter.

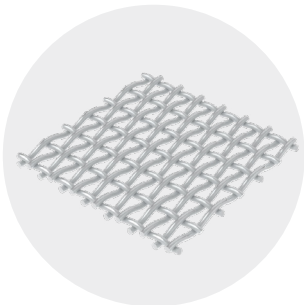
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### Twill Weave

It is woven by each warp wire passing alternately over and under 2 weft wires and vice versa. The warp and weft wires have the same diameter, and the mesh opening tends to be rhombic.

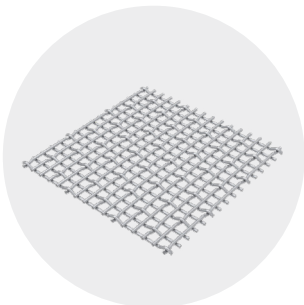
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### Oblong Weave

It is woven by alternating one warp wire over and under one weft wire, with rectangular apertures. The commonly used opening ratio (length/width) is 3:1, which can be adjusted according to requirements.

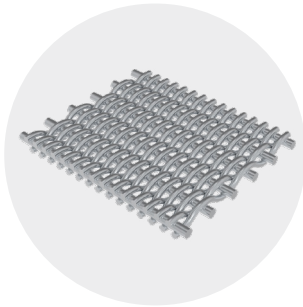
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### 5-Heddle Weave

It involves each warp wire alternatingly passing over and under every single and four weft wires, and each weft wire passing over and under every one and every four warp wires.

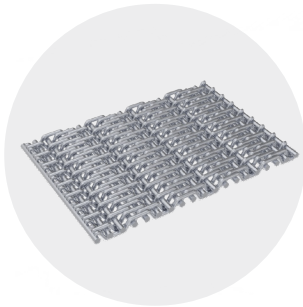
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### **Plain Dutch Weave**

It is woven by alternating one warp wire over and under one weft wire , its warp wire is larger than the weft wire.

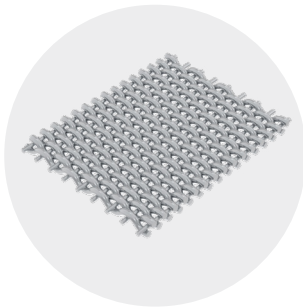
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### **Twill Dutch Weave**

It is woven by passing each warp wire over and under 2 weft wires and each weft wire over and under 2 warp wires.

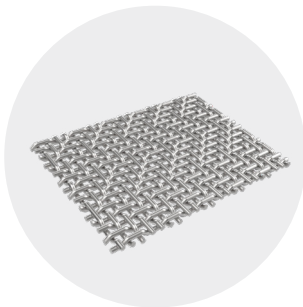
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### **Reverse Dutch Weave**

The warp wires are smaller than the weft wires, and the warp and weft wires are made into a reverse Dutch weave through plain dutch or twill dutch weave methods.

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### **Herringbone Weave**

It is a special type of twill weave. It regularly changes the weaving direction of the diagonal lines to form a herringbone pattern,

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# Stainless Steel Square Weave Mesh

Stainless steel square weave mesh is a woven mesh made of stainless steel wires, featuring uniform mesh openings, high stability, corrosion resistance, and wear resistance. Different weaving methods can be selected to meet specific needs. Stainless steel square weave mesh is commonly used for screening and classification, such as in test sieves, rotary vibrating screens, and shale shaker screens.

## Features

- Woven from high-quality stainless steel wire, it has a stable structure, and is not easily deformed. It possesses good wear resistance, acid and alkali resistance, corrosion resistance, and a long service life.
- The mesh openings are uniform and regular, ensuring excellent screening and filtration performance of the stainless steel woven mesh.
- The mesh surface is flat and smooth, making it easy to clean and maintain.

## Specifications

**Material:** 304, 304L, 316, 316L, 321, 430, 317L, 904L, etc.

**Wire diameter:** 0.02–2 mm

**Mesh count:** 1–635 mesh

**Aperture:** 0.02–10.1 mm

**Open area:** 25%–84%

Table 1: Specifications of Plain Weave, Twill Weave and Oblong Weave Meshes

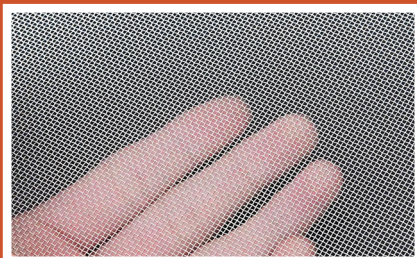
| Mesh Count | Wire Diameter |       | Aperture |       | Open Area | Max. Width | Theoretical Weight |
|------------|---------------|-------|----------|-------|-----------|------------|--------------------|
|            | Inch          | mm    | Inch     | mm    | %         | mm         | kg/sqm             |
| 1 × 1      | 0.08"         | 2.03  | 0.92"    | 23.37 | 84.6      | 2000       | 2.06               |
| 2 × 2      | 0.063"        | 1.6   | 0.437"   | 11.1  | 76.4      | 2000       | 2.56               |
| 3 × 3      | 0.054"        | 1.37  | 0.279"   | 7.09  | 70.1      | 2000       | 2.82               |
| 4 × 4      | 0.063"        | 1.6   | 0.187"   | 4.75  | 56        | 2000       | 5.12               |
| 4 × 4      | 0.047"        | 1.19  | 0.203"   | 5.16  | 65.9      | 2000       | 2.83               |
| 5 × 5      | 0.041"        | 1.04  | 0.159"   | 4.04  | 63.2      | 2000       | 2.7                |
| 6 × 6      | 0.035"        | 0.89  | 0.132"   | 3.35  | 62.7      | 2000       | 2.38               |
| 8 × 8      | 0.028"        | 0.71  | 0.097"   | 2.46  | 60.2      | 2000       | 2.02               |
| 10 × 10    | 0.025"        | 0.64  | 0.075"   | 1.91  | 56.3      | 2000       | 2.05               |
| 10 × 10    | 0.02"         | 0.51  | 0.08"    | 2.03  | 64        | 2000       | 1.3                |
| 12 × 12    | 0.023"        | 0.584 | 0.06"    | 1.52  | 51.8      | 2000       | 2.05               |
| 12 × 12    | 0.02"         | 0.508 | 0.063"   | 1.6   | 57.2      | 2000       | 1.55               |
| 14 × 14    | 0.023"        | 0.584 | 0.048"   | 1.22  | 45.2      | 2000       | 2.39               |
| 14 × 14    | 0.02"         | 0.508 | 0.051"   | 1.3   | 51        | 2000       | 1.81               |
| 16 × 16    | 0.018"        | 0.457 | 0.0445"  | 1.13  | 50.7      | 2000       | 1.67               |
| 18 × 18    | 0.017"        | 0.432 | 0.0386"  | 0.98  | 48.3      | 2000       | 1.68               |
| 20 × 20    | 0.02"         | 0.508 | 0.03"    | 0.76  | 36        | 2000       | 2.58               |
| 20 × 20    | 0.016"        | 0.406 | 0.034"   | 0.86  | 46.2      | 2000       | 1.65               |
| 24 × 24    | 0.014"        | 0.356 | 0.0277"  | 0.7   | 44.2      | 2000       | 1.52               |
| 30 × 30    | 0.013"        | 0.33  | 0.0203"  | 0.52  | 37.1      | 2000       | 1.63               |
| 30 × 30    | 0.012"        | 0.305 | 0.0213"  | 0.54  | 40.8      | 2000       | 1.4                |
| 30 × 30    | 0.009"        | 0.229 | 0.0243"  | 0.62  | 53.1      | 2000       | 0.79               |
| 35 × 35    | 0.011"        | 0.279 | 0.0176"  | 0.45  | 37.9      | 2000       | 1.36               |
| 40 × 40    | 0.01"         | 0.254 | 0.015"   | 0.38  | 36        | 2000       | 1.29               |
| 50 × 50    | 0.009"        | 0.229 | 0.011"   | 0.28  | 30.3      | 2000       | 1.31               |



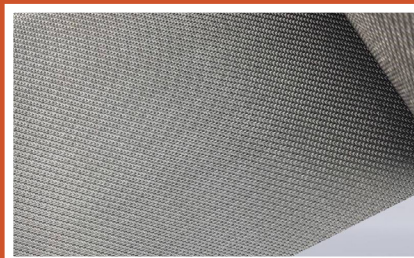
| Mesh Count | Wire Diameter |        | Aperture |        | Open Area | Max. Width | Theoretical Weight |
|------------|---------------|--------|----------|--------|-----------|------------|--------------------|
|            | Inch          | mm     | Inch     | mm     | %         | mm         | kg/sqm             |
| 50 × 50    | 0.008"        | 0.203  | 0.012"   | 0.31   | 36        | 2000       | 1.03               |
| 60 × 60    | 0.0075"       | 0.191  | 0.0092"  | 0.23   | 30.5      | 2000       | 1.09               |
| 60 × 60    | 0.007"        | 0.178  | 0.0097"  | 0.25   | 33.9      | 2000       | 0.95               |
| 70 × 70    | 0.0065"       | 0.165  | 0.0078"  | 0.2    | 29.8      | 2000       | 0.95               |
| 80 × 80    | 0.0065"       | 0.165  | 0.006"   | 0.15   | 23        | 2000       | 1.09               |
| 80 × 80    | 0.0055"       | 0.14   | 0.007"   | 0.18   | 31.4      | 2000       | 0.78               |
| 90 × 90    | 0.005"        | 0.127  | 0.0061"  | 0.16   | 30.1      | 2000       | 0.73               |
| 100 × 100  | 0.0045"       | 0.114  | 0.0055"  | 0.14   | 30.3      | 2000       | 0.65               |
| 100 × 100  | 0.004"        | 0.102  | 0.006"   | 0.15   | 36        | 2000       | 0.52               |
| 100 × 100  | 0.0035"       | 0.089  | 0.0065"  | 0.17   | 42.3      | 2000       | 0.4                |
| 110 × 110  | 0.004"        | 0.1016 | 0.0051"  | 0.1295 | 30.7      | 2000       | 0.57               |
| 120 × 120  | 0.0037"       | 0.094  | 0.0064"  | 0.1168 | 30.7      | 2000       | 0.53               |
| 150 × 150  | 0.0026"       | 0.066  | 0.0041"  | 0.1041 | 37.4      | 2000       | 0.33               |
| 160 × 160  | 0.0025"       | 0.0635 | 0.0038"  | 0.0965 | 36.4      | 2000       | 0.32               |
| 180 × 180  | 0.0023"       | 0.0584 | 0.0033"  | 0.0838 | 34.7      | 2000       | 0.31               |
| 200 × 200  | 0.0021"       | 0.0533 | 0.0029"  | 0.0737 | 33.6      | 2000       | 0.28               |
| 250 × 250  | 0.0016"       | 0.0406 | 0.0024"  | 0.061  | 36        | 2000       | 0.21               |
| 270 × 270  | 0.0016"       | 0.0406 | 0.0021"  | 0.0533 | 32.2      | 2000       | 0.22               |
| 300 × 300  | 0.0051"       | 0.0381 | 0.0018"  | 0.0457 | 29.7      | 2000       | 0.22               |
| 325 × 325  | 0.0014"       | 0.0356 | 0.0017"  | 0.0432 | 30        | 2000       | 0.21               |
| 400 × 400  | 0.001"        | 0.0254 | 0.0015"  | 0.37   | 36        | 2000       | 0.13               |
| 500 × 500  | 0.001"        | 0.0254 | 0.001"   | 0.0254 | 25        | 2000       | 0.16               |
| 635 × 635  | 0.0008"       | 0.0203 | 0.0008"  | 0.0203 | 25        | 2000       | 0.13               |

**Table 2: Specifications of 5-Heddle Weave Mesh**

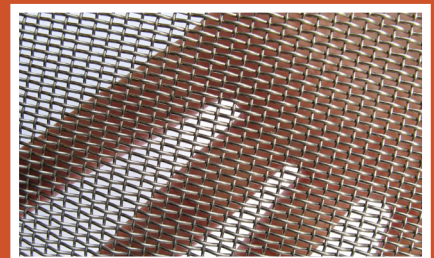
| Mesh Count | Wire Diameter | Thickness | Weight            |
|------------|---------------|-----------|-------------------|
|            | mm            | mm        | kg/m <sup>2</sup> |
| 15 × 13    | 0.9 × 0.9     | 2.6       | 5.67              |
| 24 × 20    | 0.6 × 0.6     | 1.7       | 3.96              |
| 28 × 17    | 0.47 × 0.47   | 1.41      | 2.53              |
| 30 × 18    | 0.5 × 0.5     | 1.48      | 3                 |
| 48 × 25    | 0.3 × 0.3     | 0.82      | 1.64              |
| 48 × 45    | 0.29 × 0.29   | 0.83      | 2                 |
| 55 × 36    | 0.3 × 0.3     | 0.84      | 2.05              |
| 65 × 36    | 0.3 × 0.3     | 0.84      | 2.27              |
| 77 × 40    | 0.24 × 0.24   | 0.68      | 1.65              |
| 80 × 60    | 0.2 × 0.2     | 0.55      | 1.4               |
| 107 × 59   | 0.16 × 0.16   | 0.45      | 1.09              |
| 107 × 125  | 0.16 × 0.14   | 0.45      | 1.27              |
| 107 × 132  | 0.16 × 0.14   | 0.44      | 1.3               |
| 132 × 85   | 0.14 × 0.2    | 0.44      | 1.47              |



Stainless steel plain weave mesh



Stainless steel twill weave mesh



Stainless steel oblong weave mesh

# Stainless Steel Dutch Weave Mesh

Stainless steel dutch weave mesh is made from high-quality stainless steel wires and is woven in a way that the warp wires are thicker than the weft wires, unlike the weaving method of stainless steel square weave mesh. In contrast, the warp wires of stainless steel reverse dutch mesh (including plain reverse dutch weave and twill reverse dutch weave) are thinner than the weft wires, resulting in a tighter weave. Therefore, stainless steel dutch weave mesh has a higher filter rating, and is commonly used as a filtration material in precision filter presses, oil filters, vacuum filters, and other high-precision filtration machines.

## Features

- Woven from high-quality stainless steel wire, it has a stable structure, and is not easily deformed. It possesses good wear resistance, acid and alkali resistance, corrosion resistance, and a long service life.
- High filter rating, with different diameters of warp and weft wires, resulting in a tighter weave and stronger filtration capability.
- The mesh openings are regular and uniform, the surface is flat and smooth, making it easy to clean and maintain.

## Specifications

### Material:

304, 304L, 316, 316L, 321, 430, 317L, 904L, etc.

**Filter rating:** 1–400 µm

Table 1: Specifications of Plain Dutch Weave Mesh

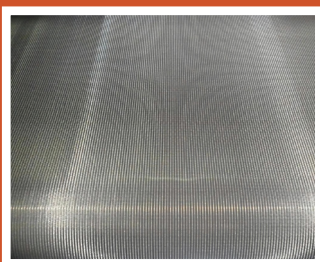
| Mesh Count | Wire Diameter     |             | Absolute Filter Rating | Nominal Filter Rating | Max. Width |
|------------|-------------------|-------------|------------------------|-----------------------|------------|
|            | inch              | mm          | µm                     | µm                    | mm         |
| 8 × 85     | 0.0140" × 0.0126" | 0.36 × 0.32 | 300–320                | 310                   | 2000       |
| 12 × 64    | 0.0240" × 0.0165" | 0.61 × 0.42 | 260–280                | 250                   | 2000       |
| 12 × 90    | 0.0178" × 0.0120" | 0.45 × 0.30 | 270–300                | 211                   | 2000       |
| 14 × 88    | 0.0200" × 0.0130" | 0.51 × 0.33 | 255–275                | 250                   | 2000       |
| 14 × 100   | 0.0160" × 0.0110" | 0.41 × 0.28 | 235–260                | 182                   | 2000       |
| 16 × 80    | 0.0170" × 0.0135" | 0.43 × 0.34 | 210–230                | 260                   | 2000       |
| 16 × 100   | 0.0157" × 0.0110" | 0.40 × 0.28 | 200–220                | 160                   | 2000       |
| 16 × 120   | 0.0140" × 0.0094" | 0.36 × 0.24 | 180–198                | 150                   | 2000       |
| 20 × 150   | 0.0098" × 0.0070" | 0.25 × 0.18 | 155–185                | 120                   | 2000       |
| 24 × 110   | 0.0150" × 0.0100" | 0.38 × 0.25 | 115–128                | 110                   | 2000       |
| 30 × 150   | 0.0090" × 0.0070" | 0.23 × 0.18 | 90–105                 | 90                    | 2000       |
| 30 × 280   | 0.0110" × 0.0037" | 0.28 × 0.09 | 100–110                | 100                   | 2000       |
| 40 × 200   | 0.0070" × 0.0055" | 0.18 × 0.14 | 70–80                  | 70                    | 2000       |
| 40 × 340   | 0.0098" × 0.0030" | 0.25 × 0.08 | 78–84                  | 75                    | 2000       |
| 50 × 250   | 0.0055" × 0.0045" | 0.14 × 0.11 | 52–57                  | 55                    | 2000       |
| 50 × 280   | 0.0055" × 0.0040" | 0.14 × 0.10 | 50–55                  | 50                    | 2000       |
| 50 × 460   | 0.0078" × 0.0023" | 0.20 × 0.06 | 60–65                  | 60                    | 1300       |
| 60 × 500   | 0.0065" × 0.0020" | 0.17 × 0.05 | 48–54                  | 50                    | 1300       |
| 70 × 350   | 0.0050" × 0.0030" | 0.13 × 0.08 | 41–47                  | 35                    | 1300       |
| 70 × 620   | 0.0060" × 0.0018" | 0.15 × 0.05 | 45–48                  | 45                    | 1300       |
| 80 × 300   | 0.0050" × 0.0035" | 0.13 × 0.09 | 45–50                  | 45                    | 1300       |
| 80 × 400   | 0.0050" × 0.0028" | 0.13 × 0.07 | 40–45                  | 40                    | 1300       |
| 80 × 700   | 0.0040" × 0.0013" | 0.10 × 0.03 | 35–44                  | 35                    | 1300       |

**Table 2: Specifications of Twill Dutch Weave Mesh**

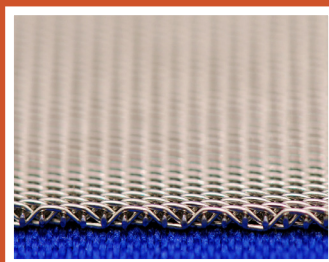
| Mesh Count | Wire Diameter     |                 | Absolute Filter Rating | Nominal Filter Rating | Max. Width |
|------------|-------------------|-----------------|------------------------|-----------------------|------------|
|            | inch              | mm              | µm                     | µm                    | mm         |
| 20 × 250   | 0.0100" × 0.0080" | 0.254" × 0.200" | 100–118                | 100                   | 2000       |
| 30 × 360   | 0.0100" × 0.0060" | 0.254" × 0.152" | 95–105                 | 90                    | 2000       |
| 40 × 560   | 0.0070" × 0.0040" | 0.178" × 0.102" | 75–83                  | 65                    | 2000       |
| 50 × 250   | 0.0100" × 0.0080" | 0.254" × 0.200" | 55–60                  | 50                    | 2000       |
| 80 × 700   | 0.0040" × 0.0030" | 0.102" × 0.076" | 35–38                  | 35                    | 1600       |
| 200 × 600  | 0.0024" × 0.0018" | 0.061" × 0.046" | 28–32                  | 30                    | 1600       |
| 165 × 800  | 0.0028" × 0.0020" | 0.071" × 0.051" | 25–39                  | 25                    | 1300       |
| 165 × 1400 | 0.0028" × 0.0016" | 0.071" × 0.041" | 16–18                  | 15                    | 1300       |
| 200 × 1400 | 0.0028" × 0.0016" | 0.071" × 0.041" | 12–14                  | 10                    | 1300       |
| 250 × 1400 | 0.0022" × 0.0016" | 0.056" × 0.041" | 11–13                  | 9                     | 1300       |
| 325 × 2300 | 0.0015" × 0.0010" | 0.038" × 0.025" | 8–9                    | 5                     | 1300       |
| 400 × 2800 | 0.0011" × 0.0008" | 0.028" × 0.020" | 4–5                    | 2                     | 1300       |
| 500 × 3600 | 0.0010" × 0.0006" | 0.025" × 0.015" | 2–3                    | 1                     | 1300       |

**Table 3: Specifications of Stainless Steel Reverse Dutch Weave Mesh**

| Mesh Count | Wire Diameter     |                 | Absolute Filter Rating | Nominal Filter Rating | Max. Width |
|------------|-------------------|-----------------|------------------------|-----------------------|------------|
|            | inch              | mm              | µm                     | µm                    | mm         |
| 48 × 10    | 0.0200" × 0.0200" | 0.500" × 0.500" | 350–450                | 400                   | 1300       |
| 72 × 15    | 0.0200" × 0.0200" | 0.500" × 0.500" | 250–350                | 300                   | 1300       |
| 132 × 16   | 0.0140" × 0.0180" | 0.352" × 0.457" | 210–260                | 250                   | 1300       |
| 132 × 18   | 0.0140" × 0.0179" | 0.355" × 0.455" | 180–220                | 200                   | 1300       |
| 152 × 24   | 0.0120" × 0.0140" | 0.315" × 0.350" | 115–130                | 165                   | 1300       |
| 260 × 40   | 0.0059" × 0.0086" | 0.150" × 0.220" | 80–95                  | 125                   | 1300       |
| 130 × 30   | 0.0079" × 0.0177" | 0.200" × 0.450" | 100–110                | 100                   | 1800       |
| 128 × 36   | 0.0079" × 0.0157" | 0.200" × 0.400" | 80–90                  | 80                    | 1800       |
| 175 × 50   | 0.0059" × 0.0118" | 0.150" × 0.300" | 60–70                  | 60                    | 1300       |
| 400 × 120  | 0.0026" × 0.0040" | 0.065" × 0.100" | 60–70                  | 60                    | 1300       |
| 325 × 39   | 0.0059" × 0.0120" | 0.150" × 0.300" | 45–75                  | 55                    | 1300       |
| 290 × 60   | 0.0035" × 0.0090" | 0.090" × 0.230" | 43–51                  | 51                    | 1300       |
| 345 × 45   | 0.0055" × 0.0090" | 0.140" × 0.230" | 40–65                  | 50                    | 1300       |
| 290 × 74   | 0.0035" × 0.0079" | 0.090" × 0.200" | 38–45                  | 40                    | 1300       |
| 625 × 105  | 0.0016" × 0.0055" | 0.042" × 0.140" | 23–28                  | 25                    | 1300       |
| 630 × 134  | 0.0015" × 0.0051" | 0.040" × 0.130" | 18–23                  | 17                    | 1300       |
| 720 × 150  | 0.0013" × 0.0043" | 0.035" × 0.110" | 16–20                  | 14                    | 1300       |



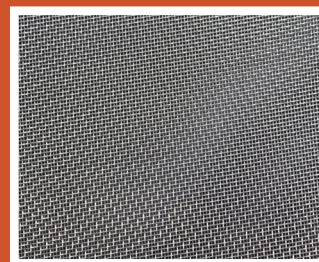
Stainless steel dutch weave mesh



Stainless steel twill dutch weave mesh



Stainless steel reverse dutch weave mesh



Stainless steel 5-heddle weave mesh



# Black Wire Cloth

Black wire cloth is woven from low carbon steel wire without any surface treatment. Due to the annealing process, the wire mesh appears black. Due to its low production costs, it is commonly used as screen mesh in industry for screening coal, sand, gravel, and other particulate materials. It is also widely used in the fields of plastic industry, rubber industry, industrial filtration, petrochemical filtration, and grain industry filtration.

## Features

- Low cost.
- Uniform and regular mesh opening, flat surface.
- Good resistance to acid, alkali, and corrosion.
- High tensile strength, good toughness, and wear resistance, long service life.
- Uniform structure, not curled, easy to use, uniform thickness, anti-static.

## Specifications

**Material:** low carbon steel wire.

### Weaving type:

plain weave, twill weave, dutch weave and herringbone twilled weave .

**Wire diameter:** 0.15 mm – 0.6 mm

### Mesh sizes:

- Plain Weave Black Wire Cloth – Mesh from 6 to 80
- Dutch Weave Black Wire Cloth – Mesh from 12 x 64 to 40 x 200

**Width:** 0.914 m – 1.3 m

**Length:** commonly is 30 m, other specs can be customized.

**Shape:** round, rectangular, square, oval and woven wire cloth.

**Table 1: Specifications of Plain Weave and Twill Weave Black Wire Cloth**

| Mesh Count | Opening | Wire Diameter | Reference Weight |
|------------|---------|---------------|------------------|
|            | mm      | mm            | kg/sqm           |
| 10 × 10    | 1.94    | 0.6           | 1.8              |
| 10 × 10    | 1.98    | 0.56          | 1.56             |
| 12 × 12    | 1.52    | 0.6           | 2.16             |
| 12 × 12    | 1.56    | 0.56          | 1.88             |
| 18 × 18    | 0.96    | 0.45          | 1.82             |
| 18 × 18    | 1.0     | 0.41          | 1.52             |
| 18 × 18    | 1.04    | 0.37          | 1.23             |
| 18 × 18    | 1.06    | 0.35          | 1.1              |
| 20 × 20    | 0.86    | 0.41          | 1.68             |
| 20 × 20    | 0.9     | 0.37          | 1.38             |
| 22 × 22    | 0.74    | 0.35          | 1.33             |
| 22 × 22    | 0.79    | 0.30          | 0.99             |
| 24 × 24    | 0.7     | 0.35          | 1.5              |
| 26 × 26    | 0.63    | 0.35          | 1.66             |
| 28 × 28    | 0.6     | 0.31          | 1.36             |
| 30 × 30    | 0.64    | 0.31          | 1.46             |
| 32 × 32    | 0.5     | 0.29          | 1.36             |
| 34 × 34    | 0.47    | 0.28          | 1.3              |
| 36 × 36    | 0.47    | 0.28          | 1.3              |
| 38 × 38    | 0.41    | 0.26          | 1.1              |
| 40 × 40    | 0.39    | 0.25          | 1.2              |

**Table 1: Specifications of Plain Weave and Twill Weave Black Wire Cloth**

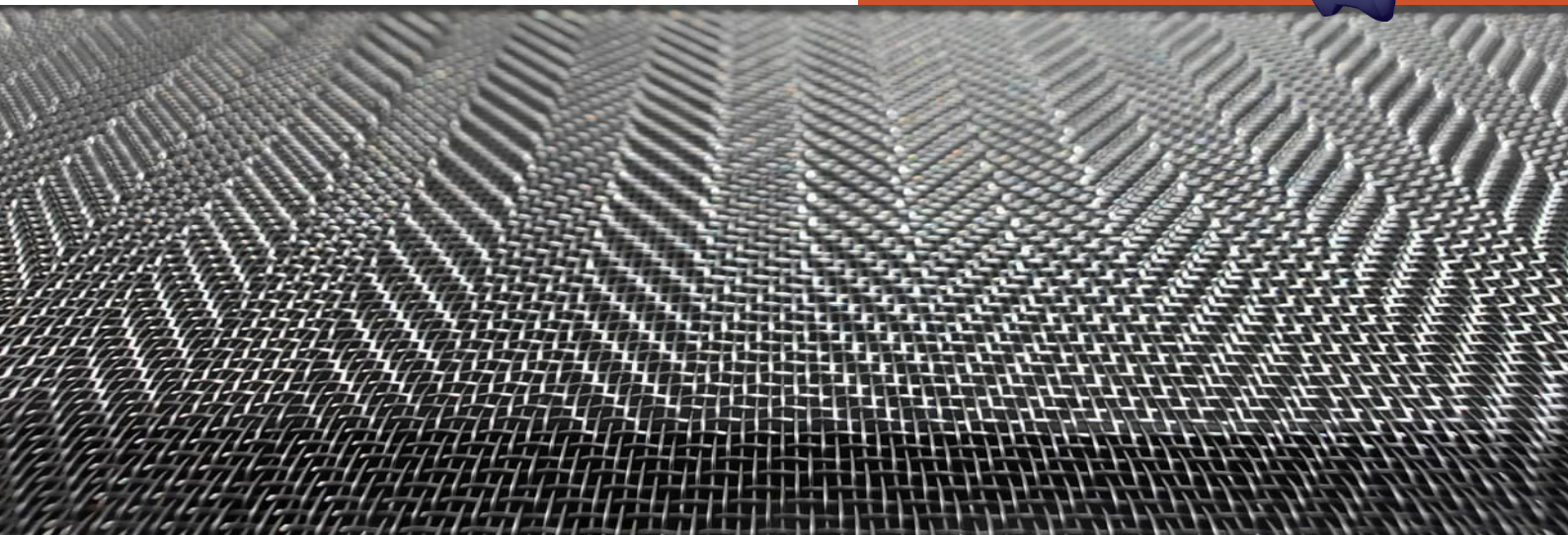
| Mesh Count | Opening | Wire Diameter | Reference Weight |
|------------|---------|---------------|------------------|
|            | mm      | mm            | kg/sqm           |
| 40 × 40    | 0.41    | 0.23          | 1.06             |
| 40 × 40    | 0.43    | 0.21          | 0.88             |
| 42 × 42    | 0.365   | 0.24          | 1.1              |
| 44 × 44    | 0.347   | 0.23          | 1.0              |
| 46 × 46    | 0.332   | 0.22          | 1.0              |
| 48 × 48    | 0.319   | 0.20          | 0.96             |
| 50 × 50    | 0.318   | 0.19          | 0.91             |
| 50 × 50    | 0.338   | 0.17          | 0.72             |
| 56 × 56    | 0.248   | 0.17          | 0.81             |
| 60 × 60    | 0.27    | 0.15          | 0.68             |

**Table 2: Specifications of Dutch Weave Black Wire Cloth**

| Mesh Count | Wire Diameter |
|------------|---------------|
|            | mm            |
| 12 × 64    | 0.58/0.64     |
| 14 × 88    | 0.50/0.33     |
| 24 × 110   | 0.36/0.25     |
| 30 × 150   | 0.23/0.18     |
| 40 × 200   | 0.18/0.13     |



In addition to the above weave type such as plain weave, twill weave, and Dutch weave black wire cloth, there is also a herringbone weave black wire cloth.



# Filter Discs, Filter Cartridges & Filter Elements

Filter discs, filter cartridges, and filter elements are deep processing products made from woven wire mesh through processes such as cutting, spot welding, edging, and pleating to create square, rectangular, circular, or special shapes to meet specific needs. We can provide deep processing woven wire mesh products that come in single-layer or multi-layer, various materials, mesh sizes, and weave methods.

## Features

- Made of stainless steel, resistant to high temperatures and corrosion, easy to clean, and long lifespan.
- Stainless steel woven mesh is available in various specifications and weave methods, such as plain weave, twill weave, and dutch weave.
- We offer different specifications and sizes to meet your various needs.

## Specifications

**Material:** stainless steel, brass, copper, nickel, etc.

**Wire diameter:** 0.02–2 mm

**Aperture width:** 0.02–23 mm

**Open screening area:** 25%–84%

| Table 1: Specifications of Stainless Steel Square Weave Mesh |               |       |          |       |           |            |                    |
|--------------------------------------------------------------|---------------|-------|----------|-------|-----------|------------|--------------------|
| Mesh Count                                                   | Wire Diameter |       | Aperture |       | Open Area | Max. Width | Theoretical Weight |
|                                                              | Inch          | mm    | Inch     | mm    | %         | mm         | kg/sqm             |
| 1 × 1                                                        | 0.08"         | 2.03  | 0.92"    | 23.37 | 84.6      | 2000       | 2.06               |
| 2 × 2                                                        | 0.063"        | 1.6   | 0.437"   | 11.1  | 76.4      | 2000       | 2.56               |
| 3 × 3                                                        | 0.054"        | 1.37  | 0.279"   | 7.09  | 70.1      | 2000       | 2.82               |
| 4 × 4                                                        | 0.063"        | 1.6   | 0.187"   | 4.75  | 56        | 2000       | 5.12               |
| 4 × 4                                                        | 0.047"        | 1.19  | 0.203"   | 5.16  | 65.9      | 2000       | 2.83               |
| 5 × 5                                                        | 0.041"        | 1.04  | 0.159"   | 4.04  | 63.2      | 2000       | 2.7                |
| 6 × 6                                                        | 0.035"        | 0.89  | 0.132"   | 3.35  | 62.7      | 2000       | 2.38               |
| 8 × 8                                                        | 0.028"        | 0.71  | 0.097"   | 2.46  | 60.2      | 2000       | 2.02               |
| 10 × 10                                                      | 0.025"        | 0.64  | 0.075"   | 1.91  | 56.3      | 2000       | 2.05               |
| 10 × 10                                                      | 0.02"         | 0.51  | 0.08"    | 2.03  | 64        | 2000       | 1.3                |
| 12 × 12                                                      | 0.023"        | 0.584 | 0.06"    | 1.52  | 51.8      | 2000       | 2.05               |
| 12 × 12                                                      | 0.02"         | 0.508 | 0.063"   | 1.6   | 57.2      | 2000       | 1.55               |
| 14 × 14                                                      | 0.023"        | 0.584 | 0.048"   | 1.22  | 45.2      | 2000       | 2.39               |
| 14 × 14                                                      | 0.02"         | 0.508 | 0.051"   | 1.3   | 51        | 2000       | 1.81               |
| 16 × 16                                                      | 0.018"        | 0.457 | 0.0445"  | 1.13  | 50.7      | 2000       | 1.67               |
| 18 × 18                                                      | 0.017"        | 0.432 | 0.0386"  | 0.98  | 48.3      | 2000       | 1.68               |
| 20 × 20                                                      | 0.02"         | 0.508 | 0.03"    | 0.76  | 36        | 2000       | 2.58               |
| 20 × 20                                                      | 0.016"        | 0.406 | 0.034"   | 0.86  | 46.2      | 2000       | 1.65               |
| 24 × 24                                                      | 0.014"        | 0.356 | 0.0277"  | 0.7   | 44.2      | 2000       | 1.52               |
| 30 × 30                                                      | 0.013"        | 0.33  | 0.0203"  | 0.52  | 37.1      | 2000       | 1.63               |
| 30 × 30                                                      | 0.012"        | 0.305 | 0.0213"  | 0.54  | 40.8      | 2000       | 1.4                |
| 30 × 30                                                      | 0.009"        | 0.229 | 0.0243"  | 0.62  | 53.1      | 2000       | 0.79               |
| 35 × 35                                                      | 0.011"        | 0.279 | 0.0176"  | 0.45  | 37.9      | 2000       | 1.36               |
| 40 × 40                                                      | 0.01"         | 0.254 | 0.015"   | 0.38  | 36        | 2000       | 1.29               |
| 50 × 50                                                      | 0.009"        | 0.229 | 0.011"   | 0.28  | 30.3      | 2000       | 1.31               |



| Mesh Count | Wire Diameter |        | Aperture |        | Open Area | Max. Width | Theoretical Weight |
|------------|---------------|--------|----------|--------|-----------|------------|--------------------|
|            | Inch          | mm     | Inch     | mm     | %         | mm         | kg/sqm             |
| 50 × 50    | 0.008"        | 0.203  | 0.012"   | 0.31   | 36        | 2000       | 1.03               |
| 60 × 60    | 0.0075"       | 0.191  | 0.0092"  | 0.23   | 30.5      | 2000       | 1.09               |
| 60 × 60    | 0.007"        | 0.178  | 0.0097"  | 0.25   | 33.9      | 2000       | 0.95               |
| 70 × 70    | 0.0065"       | 0.165  | 0.0078"  | 0.2    | 29.8      | 2000       | 0.95               |
| 80 × 80    | 0.0065"       | 0.165  | 0.006"   | 0.15   | 23        | 2000       | 1.09               |
| 80 × 80    | 0.0055"       | 0.14   | 0.007"   | 0.18   | 31.4      | 2000       | 0.78               |
| 90 × 90    | 0.005"        | 0.127  | 0.0061"  | 0.16   | 30.1      | 2000       | 0.73               |
| 100 × 100  | 0.0045"       | 0.114  | 0.0055"  | 0.14   | 30.3      | 2000       | 0.65               |
| 100 × 100  | 0.004"        | 0.102  | 0.006"   | 0.15   | 36        | 2000       | 0.52               |
| 100 × 100  | 0.0035"       | 0.089  | 0.0065"  | 0.17   | 42.3      | 2000       | 0.4                |
| 110 × 110  | 0.004"        | 0.1016 | 0.0051"  | 0.1295 | 30.7      | 2000       | 0.57               |
| 120 × 120  | 0.0037"       | 0.094  | 0.0064"  | 0.1168 | 30.7      | 2000       | 0.53               |
| 150 × 150  | 0.0026"       | 0.066  | 0.0041"  | 0.1041 | 37.4      | 2000       | 0.33               |
| 160 × 160  | 0.0025"       | 0.0635 | 0.0038"  | 0.0965 | 36.4      | 2000       | 0.32               |
| 180 × 180  | 0.0023"       | 0.0584 | 0.0033"  | 0.0838 | 34.7      | 2000       | 0.31               |
| 200 × 200  | 0.0021"       | 0.0533 | 0.0029"  | 0.0737 | 33.6      | 2000       | 0.28               |
| 250 × 250  | 0.0016"       | 0.0406 | 0.0024"  | 0.061  | 36        | 2000       | 0.21               |
| 270 × 270  | 0.0016"       | 0.0406 | 0.0021"  | 0.0533 | 32.2      | 2000       | 0.22               |
| 300 × 300  | 0.0051"       | 0.0381 | 0.0018"  | 0.0457 | 29.7      | 2000       | 0.22               |
| 325 × 325  | 0.0014"       | 0.0356 | 0.0017"  | 0.0432 | 30        | 2000       | 0.21               |
| 400 × 400  | 0.001"        | 0.0254 | 0.0015"  | 0.37   | 36        | 2000       | 0.13               |
| 500 × 500  | 0.001"        | 0.0254 | 0.001"   | 0.0254 | 25        | 2000       | 0.16               |
| 635 × 635  | 0.0008"       | 0.0203 | 0.0008"  | 0.0203 | 25        | 2000       | 0.13               |

**Table 2: Specifications of Stainless Steel Dutch Weave Mesh**

| Mesh Count | Wire Diameter<br>mm | Thickness<br>mm | Weight<br>kg/m <sup>2</sup> |
|------------|---------------------|-----------------|-----------------------------|
| 6 × 45     | 0.10 × 0.60         | 5.3             | 400                         |
| 72 × 15    | 0.45 × 0.45         | 4.5             | 350                         |
| 132 × 17   | 0.30 × 0.45         | 4.1             | 240                         |
| 12 × 64    | 0.60 × 0.40         | 4.2             | 200                         |
| 152 × 24   | 0.30 × 0.40         | 3.6             | 190                         |
| 14 × 88    | 0.50 × 0.35         | 2.1             | 150                         |
| 12 × 90    | 0.45 × 0.30         | 2.6             | 135                         |
| 13 × 100   | 0.45 × 0.28         | 2.58            | 125                         |
| 14 × 100   | 0.40 × 0.28         | 2.5             | 120                         |
| 16 × 125   | 0.35 × 0.22         | 2               | 110                         |
| 22 × 150   | 0.30 × 0.18         | 2               | 100                         |
| 20 × 250   | 0.25 × 0.20         | 2.8             | 100                         |
| 130 × 35   | 0.20 × 0.40         | 3.1             | 90                          |
| 24 × 110   | 0.35 × 0.25         | 2.65            | 80                          |
| 30 × 330   | 0.25 × 0.16         | 2.55            | 80                          |
| 50 × 400   | 0.20 × 0.14         | 2.14            | 70                          |
| 25 × 170   | 0.25 × 0.16         | 1.45            | 70                          |
| 30 × 150   | 0.23 × 0.18         | 1.6             | 65                          |
| 260 × 40   | 0.15 × 0.25         | 2.15            | 65                          |
| 40 × 200   | 0.18 × 0.12         | 1.3             | 55                          |
| 50 × 230   | 0.18 × 0.12         | 1.23            | 50                          |
| 400 × 125  | 0.065 × 0.10        | 0.7             | 50                          |
| 50 × 600   | 0.14 × 0.080        | 1.3             | 45                          |
| 50 × 250   | 0.14 × 0.11         | 0.9             | 40                          |
| 80 × 400   | 0.12 × 0.07         | 0.7             | 35                          |
| 80 × 700   | 0.11 × 0.076        | 1.21            | 25                          |
| 165 × 800  | 0.07 × 0.050        | 0.7             | 15                          |
| 165 × 1400 | 0.07 × 0.040        | 0.76            | 10                          |
| 200 × 1400 | 0.07 × 0.040        | 0.8             | 5                           |
| 325 × 2300 | 0.035 × 0.025       | 0.48            | 2                           |



Deep Processing Woven Mesh Products

# Application

Stainless steel woven mesh and black wire cloth are commonly used in the plastic processing, rubber, food, petrochemical, and other industries for applications such as screening, filtration, shielding, and printing.

## Plastic Industry



- Pleated candle filter elements
- Disc filters
- Extruder screens
- Polymer continuous filter belts

## Rubber Industry



- Tire production
- Polymer extruder screens
- Polymer continuous filter belts
- Polymer sintered filters

## Automotive Manufacturing Industry



- Automobile grills
- Mesh exhaust decoupling rings
- Frequency dampers
- Airbag filters

## Food Industry



- Vibrating screen
- Barbecue grills
- Dewatering mesh screen
- Vibratory screens

## Pharmaceutical Industry



- Analytical sieves for particle sizing
- Woven mesh for surgical trays
- Metering equipment
- Tablet coating roller woven mesh

## Electronics Industry



- Screen printing
- EMI shielding mesh
- Electronic device components

### Petrochemical Industry



- Shaker screens
- Power generation equipment
- Turbines
- Fire protection screens

### Metallurgical Industry



- Self-cleaning filtration
- Backwash filtration
- Chemical filtration
- Hot gas filtration

### Aerospace Industry



- EMI shielding mesh
- Fuel filtration screens
- Air filter screens

### Laboratory Industry



- EMI shielding mesh
- Test sieves
- Mesh baskets

### Hydrogen Generation Industry



- Cathode electrolyzer
- Hydrogen gas purifier
- Hydrogen gas is adsorbed in a metal material for storage

### Fuel Cell Industry



- Gas diffusion layer
- Coating substrates for catalysts
- Current collector
- Membrane support





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