Knitted Mesh

Weave Impossible to Possible

BOEDON Industech Limited

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BOEDON Brochaure

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Our knitted mesh can meet the gas-liquid separation, filtration and purification requirements of various industries.

Knitted mesh is a continuous knitted mesh fabric produced by knitting metal wires on a circular knitting machine. This production process produces an extremely strong and flexible mesh fabric composed of a series of interlocking rings. It can be made of round or flat wires. The round wire knitted mesh is the most widely used type and the flat wire knitted mesh is used in special applications according to customers' requirements. It is widely used for gas-liquid filtration in the fields of petroleum, chemical industry, metallurgy, pharmaceuticals and for EMI shielding in the electronic field.

Knitted mesh can be made of stainless steel wires, copper wires, brass wires, galvanized wires, nickel wires and other alloy wires. It can also be made of PP, PTEF and other non-metallic wires and can be customized upon request.

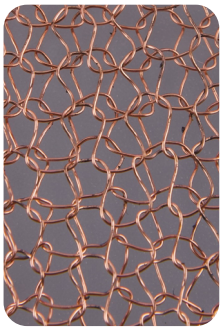
Knitted Mesh

KNITTED MESH

Material

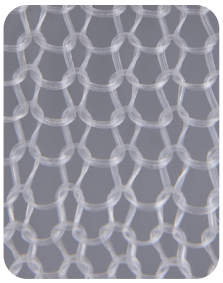
Stainless steel knitted mesh

Stainless steel knitted mesh is a mesh material knitted from stainless steel wire with excellent corrosion and oxidation resistance performance. The mesh has good filtration properties and can filter out tiny particles. Stainless steel knitted mesh also has good strength and abrasion resistance performance and can be used in high temperature and high pressure environments. In addition, stainless steel knitted mesh is also beautiful, easy to clean, easy to process, etc. It is widely used in aviation, aerospace, military, petrochemical, and other fields. Stainless steel knitted mesh can also be selected according to different application scenarios with different materials and specifications.



Copper knitted mesh

Copper knitted mesh is a mesh knitted from pure copper wire, which has excellent conductivity and good corrosion resistance performance. The mesh has good filtration properties, which can filter out tiny particles and can also be used to isolate electromagnetic waves. Copper knitted mesh also has good flexibility and elasticity and can be adapted to various shapes of surfaces. In addition, copper knitted mesh is also beautiful, easy to clean, easy to process, and other characteristics, widely used in electronics, communications, medicine, and other fields.



PP knitted mesh

PP knitted mesh is a mesh knitted from polypropylene filaments, which has good corrosion and abrasion resistance performance, and can be used in humid environments. The mesh has good filtration properties, which can filter out tiny particles and can also be used to isolate electromagnetic waves. PP knitted mesh also has good softness and elasticity, which can be adapted to various shapes of surfaces. In addition, PP knitted mesh is lightweight, easy to clean, easy to process, etc. It is widely used in food, medicine, chemicals, etc.

PP & stainless steel

Knitted mesh mixed with PP and stainless steel has the advantages of both PP and stainless steel, with good corrosion, abrasion, and high temperature resistance performance. The mesh has good filtration performance, which can filter out tiny particles and can also be used to isolate electromagnetic waves. PP and stainless steel knitted mesh also have good softness and elasticity and can be adapted to various shapes of surfaces. In addition, the mesh is lightweight, easy to clean, easy to process, etc. It is widely used in food, medicine, chemicals, etc.

KNITTED MESH

Wire Type

The round wire knitted mesh is the most widely used type and the flat wire knitted mesh offers a larger contact area and an enhanced separation efficiency.

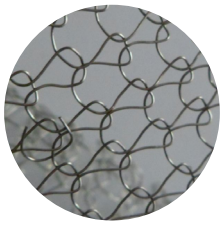
Round wire

Flat wire

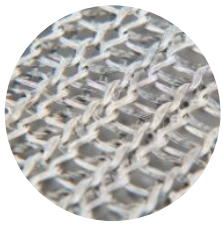
KNITTED MESH

Strand Type

Knitted mesh can be made of single-strand wires or multi-strand wires. The single-strand knitted mesh is simple and economical and is widely used in general-purpose applications. Multi-strand knitted mesh is made by knitting 3–12 strands metallic or non-metallic materials with a wire diameter ranging from 0.1 mm to 0.3 mm with knitters. In addition to the characteristics of common knitted mesh, it has a larger surface area and higher strength, and is mostly used in heavy duty applications, for example, the filtration and separation in chemical and petrochemical industries.



Single-strand



Multi-strand

KNITTED MESH

Surface Type

Flattened surface is a standard surface type for general-purpose applications. When the knitted mesh is produced completely, it is ginned by special technology to form ginning in various shapes, widths and depths. It can be applied in a variety of industrial applications.

Flattened type knitted mesh

Ginning type knitted mesh

KNITTED MESH

Specification

Material: stainless steel wire, copper wire, brass wire, galvanized wire, nickel wire and other alloy wires; PP, PTEF and other non-metallic wires.

Wire type: round wire, flat wire.

Strand type: single-strand type, multi-strand type

Surface type: flattened type, ginning type

Package: packed with Kraft paper and then into the carton.

Specification of Round Wire Knitted Mesh

Type	Wire Diameter (mm)	Width (mm)	Number of Stitches Per cm on Length	Number of Stitches Per cm Across Lay Flat
Fine Mesh	0.08–0.18	6–300	3.5	4.4
Medium-Fine Mesh	0.16	40–600	2.4	3.5
Standard Mesh	0.08–0.35	30–1000	1.6	1.9
Coarse Mesh	0.25–0.40	30–1000	1.6	0.74
Super Coarse Mesh	0.4–0.5	100–350	0.5	0.5

Specification of Flat Wire Knitted Mesh

Wire Diameter (mm)	Mesh Opening/Loop Size (mm)	Number of Needles	Maximum Width (mm)	Minimum Width (mm)
0.1 × 0.3	2 × 4	36	60	55
0.1 × 0.3	4.5 × 4,2.5 × 4	34	150	100
0.1 × 0.4	4.5 × 5.5,2.5 × 5.5	40	150	120
0.1 × 0.4	4 × 3.5,2.5 × 3.5	56	205	180
0.1 × 0.4	4 × 4,3 × 4	65	260	240
0.2 × 0.4	5.2 × 3.5,3 × 3.5	94	420	380
0.2 × 0.4	7.5 × 5,5 × 5	102	565	490
0.2 × 0.5	5 × 4,2.5 × 4	128	560	470

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KNITTED MESH

Features & Application

Features

- High strength and great overall stability
- High filtration efficiency
- Excellent resistant to corrosion, acids, bases and high temperatures
- Excellent cleaning capacity
- Durable and long service life
- Soft and won't hurt the mechanical parts

Application

Demister & Tower Packing

Demister pad production

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