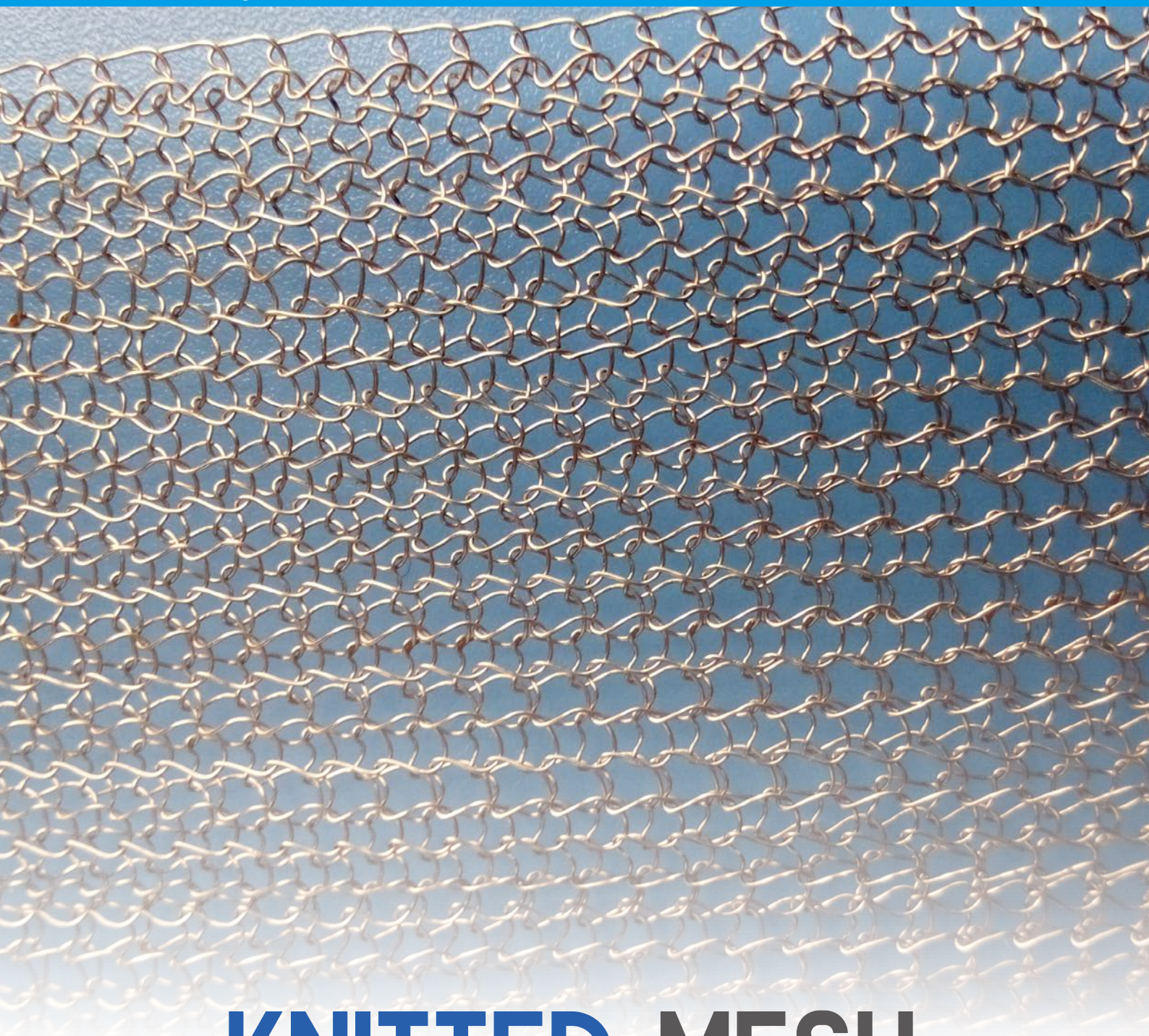
WALCOOM

Walcoom Corporation



KNITTED MESH

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KNITTED MESH

"A good solution for filtering, shielding and muffling"

Walcoom Corporation has been offering the strong and durable knitting mesh products for 20 years. We are specialized in knitted mesh producing and exporting. Advanced production equipment, skilled workers, professional sale representatives and considerate after sale service contribute our high quality products and long term cooperation with our customers.

Knitted mesh is produced by the knitting machine, which is mainly made of stainless steel wire, copper wire, brass wire or polypropylene wire. And our knitted mesh products include knitted wire mesh roll, compressed knitted mesh, knitted mesh gasket and knitted mesh filter. Featured by high strength and perfect durability, knitted mesh is widely used as filtration material for liquid or gas separating and filtering. Besides, it's also can be used as engine breathers and shielding mesh and so on.

Feature

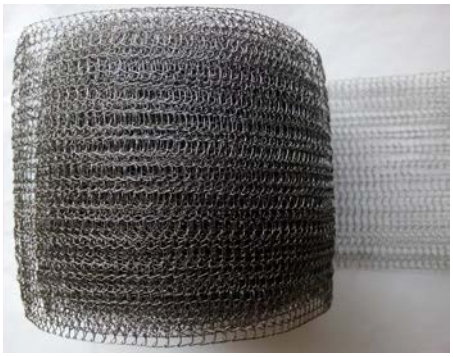
- High strength and stability.
- High filtration efficiency.
- Good shielding performance.
- Corrosion and rust resistance.
- Acid and alkali resistance.
- Durable and long service life.

Application

- Liquid or gas filtration materials.
- Engine breathers in vehicles.
- Shielding mesh in electronic field.
- Mist eliminator or demister pad.
- Gland rings and grounding buttons.
- Cleaning ball in the kitchen.

Knitted wire mesh

Knitted wire mesh can be made of stainless steel, copper, brass, nickle, polypropylene, alloy or galvanized iron wire and the wire can be flat wire or round wire. The various knitted wires are knitted into a continuous sleeve with inter-linked wire loops by a circular knitted machine. Featured by high strength and perfect durability, knitted wire mesh is widely used as filtration materials, engine breathers, shielding mesh, mist eliminator, cleaning ball, etc.



Advantage of knitted wire mesh

- High strength and stability.
- High filtration efficiency.
- Good shielding performance.
- Corrosion and rust resistance.
- Durable and long service life.

Specification of knitted wire mesh

- **Material:** stainless steel, copper, brass, nickle, polypropylene, alloy or galvanized iron wire.
- **Manufacturing method:** machine knitting.
- **Type:** flattened type, ginning type.
- **Wire shape:** round wire, flat wire.
- **Wire number:** single wire, double wires, three wires.

Table 1: Specification of Stainless Steel Flat Wire Knitted Mesh

Item	Wire Diameter (mm)	Mesh Opening or Loop Size (mm)	Number of Needles	Maximum Width (mm)	Minimum Width (mm)
SSF-01	0.1 × 0.3	2 × 4	36	60	55
SSF-02	0.1 × 0.3	4.5 × 4, 2.5 × 4	34	150	100
SSF-03	0.1 × 0.4	4.5 × 5.5, 2.5 × 5.5	40	150	120
SSF-04	0.1 × 0.4	4 × 3.5, 2.5 × 3.5	56	205	180
SSF-05	0.1 × 0.4	4 × 4, 3 × 4	65	260	240
SSF-06	0.2 × 0.4	5.2 × 3.5, 3 × 3.5	94	420	380
SSF-07	0.2 × 0.4	7.5 × 5, 5 × 5	102	565	490
SSF-08	0.2 × 0.5	5 × 4, 2.5 × 4	128	560	470

Note: Knitted mesh length can be customized according to customers' requirements.

Table 2: Specification of Stainless Steel Round Wire Knitted Mesh					
Item	**Type**	**Wire Diameter (mm)**	**Width (mm)**	**Number of Stitches Per cm on Length**	**Number of Stitches Per cm Across Lay Flat**
SSR-01	fine mesh	0.08 – 0.18	6 - 300	3.5	4.4
SSR-02	medium fine mesh	0.16	40 - 600	2.4	3.5
SSR-03	standard mesh	0.18 - 0.35	30 - 1000	1.6	1.9
SSR-04	coarse mesh	0.25 - 0.40	30 - 1000	1.6	0.74
SSR-05	super coarse mesh	0.4 - 0.5	100 - 350	0.5	0.5

Compressed knitted mesh

Compressed knitted mesh – a type of multi-layer knitted wire mesh, can be made of stainless steel wire, copper wire, brass wire or nickle wire and produced by knitting machine then compressed by specialized equipment. It's easy to assemble, clean and replace. Besides, it's abrasion and corrosion resistant. With high strength, integral rigidity and long service life, compressed knitted mesh is widely used as filter element in various fields and it's also can be used for shielding, sealing, shock absorbing and other applications.

Advantage of compressed knitted mesh

- High strength and integral rigidity.
- Perfect air penetrability.
- Abrasion and corrosion resistance.
- High and low temperature resistance.
- Easy to assemble, clean and replace.
- Durable and long service life.

Specification of compressed knitted mesh

- **Material:** stainless steel, copper, brass, nickle.
- **Wire type:** flat wire, round wire.
- **Mesh type:** flattened type, ginning type.
- **Mesh shape:** disc, ring, rectangular, trapezoid, column, cylinder, oval, strip or special shape.
- **Packaging:** packaged with brown paper first and then put into carton box.

Knitted mesh gasket

Knitted wire mesh gasket is mainly made of stainless steel wire or tinned copper steel wire and the wires are knitted by circle knitting machine to form the soft but durable knitted mesh. The knitted mesh gasket has various types and sizes for choice. It is commonly knitted mesh with rubber, foam or elastomer core, which can recover quickly after compression. Besides, it can also be all metal type for heavy duty applications. With high strength and stability, knitted mesh gaskets are widely used for gland rings, grounding buttons or magnetron seals.

Advantage of knitted mesh gasket

- High strength and stability.
- Corrosion and abrasion resistance.
- High temperature resistance.
- High performance of shielding.
- Durable and long service life.

Specification of knitted mesh gasket

- **Material:** monel, aluminum, tinned copper steel, stainless steel wire.
- **Wire diameter:** 0.11 mm, 0.13 mm, and other diameters are available.
- **Type of all metal gasket:** common type, compressed type.
- **Knitted mesh gasket style:**

Elastomer core knitted gasket

Foam core knitted gasket

Rectangular knitted gasket

All metal knitted gasket

Tail knitted gasket

Double round knitted gasket

Knitted gasket with adhesive

Single side knitted gasket

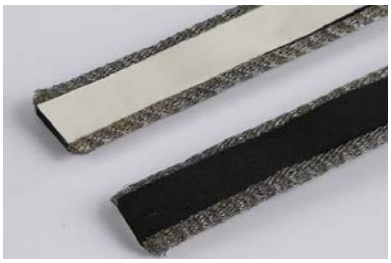
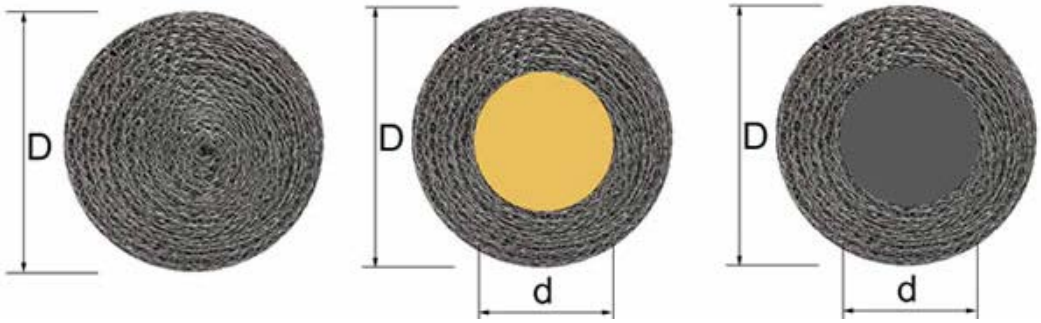
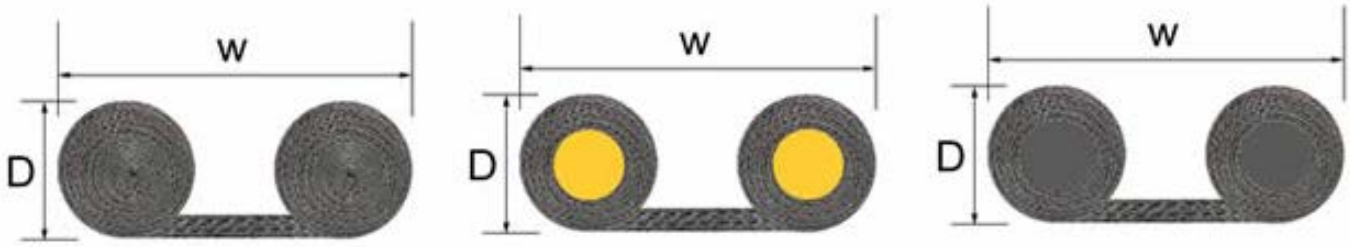

Double compressed gasket

Table 3: Specification of Round Knitted Wire Mesh Gasket



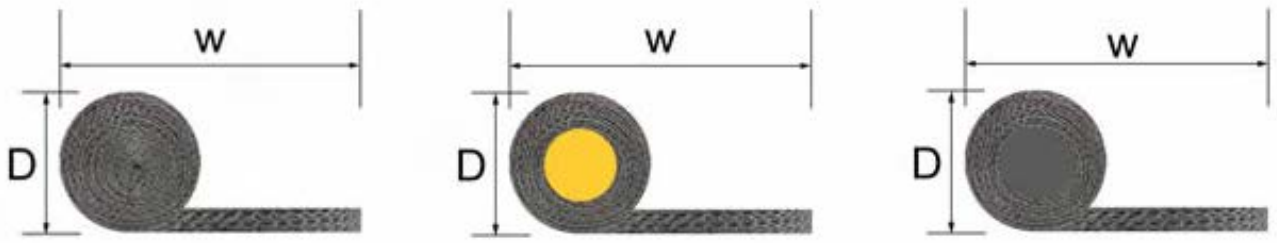
All Metal Round Shape		Foam or Elastomer Core Round Shape	
D (mm)	D (mm)	D × d (mm)	D × d (mm)
6.4	11.1	6.4 ×3.2	11.1 × 8.0
3.2	7.9	3.2 × 1.6	14.9 × 11.1
12.7	4.0	12.7 × 9.5	8.0 × 4.8
4.8	9.5	4.8 × 3.2	9.5 × 6.4
1.6	2.4	-	-

Table 4: Specification of Double Round Knitted Wire Mesh Gasket



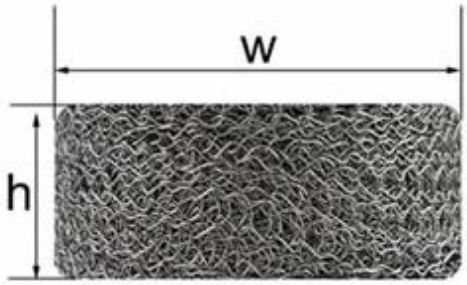
D × w (mm)	D × w (mm)	D × w (mm)	D × w (mm)
1.6 × 9.5	3.2 × 12.7	6.4 × 15.9	1.6 × 12.7
3.2 × 15.9	6.4 × 19.1	1.6 × 15.9	4.8 × 15.9
6.4 × 25.4	2.4 × 12.7	4.8 × 19.1	9.5 × 25.4
3.2 × 9.5	4.8 × 25.4	12.7 × 25.4	-

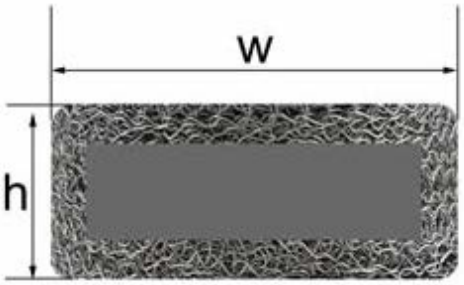
Table 5: Specification of Round with Tail Knitted Wire Mesh Gasket



D × w (mm)	D × w (mm)	D × w (mm)	D × w (mm)
1.6 × 9.5	3.2 × 15.9	6.4 × 12.7	9.4 × 25.4
1.6 × 12.7	3.2 × 19.1	6.4 × 15.9	9.5 × 15.9
1.6 × 15.9	4.0 × 12.7	6.4 × 19.1	9.5 × 19.1
1.6 × 19.1	4.0 × 19.1	6.4 × 25.4	9.5 × 25.4
2.4 × 12.7	4.8 × 12.7	7.9 × 15.9	11.1 × 19.1
2.4 × 15.9	4.8 × 15.9	7.9 × 19.1	11.1 × 25.4
2.4 × 19.1	4.8 × 19.1	7.9 × 25.4	12.7 × 19.1
3.2 × 12.7	4.8 × 25.4	9.4 × 19.1	12.7 × 25.4

Table 6: Specification of Rectangular Knitted Wire Mesh Gasket





w × h (mm)	w × h (mm)	w × h (mm)	w × h (mm)
2.4 × 3.2	6.4 × 3.2	19.1 × 12.7	2.4 × 4.8
6.4 × 6.4	20 × 6	2.4 × 6.4	6.4 × 9.5
20 × 8	3.2 × 1.6	12.7 × 6.4	20 × 10
3.2 × 3.2	12.7 × 9.5	20 × 12	3.2 × 4.0
12.7 × 12.7	20 × 20	3.2 × 4.8	15 × 6
25 × 6	3.2 × 6.4	15 × 8	25 × 8
3.2 × 9.5	15 × 10	25 × 10	-

Knitted mesh filter

Knitted mesh filter, including knitted wire mist eliminator and knitted mesh panel, can be made of stainless steel wire, monel wire, nickle wire or polypropylene wire. Knitted wire mist eliminator with standard or wave type is used for separating and removing the droplets ranging from 3 μm to 5 μm in the gases. Knitted wire mesh panel commonly be made into frames and supporting grilles. Knitted wire mesh filter of flat wire has larger surface than round wire, which can be used for high filtering precision applications, and knitted mesh filter of round wire is widely used for common filtration.

Advantage of knitted mesh filter

- High filtering precision.
- Acid and alkali resistance.
- Corrosion resistance.
- Anti high temperature.
- Easy to maintain.
- Long service life.

Specification of knitted mesh filter

- **Material:** stainless steel wire, monel wire, nickle wire, aluminum wire, polypropylene wire.
- **Wire shape:** flat, round.
- **Filter type:** knitted wire mist eliminator (demister pad), knitted wire mesh panel.
- **Mist eliminator type:** standard type, wave type.

Flatten type mist eliminator

Mist eliminator with center hole

Wave type mist eliminator

Our solutions to avoid breaking and creasing

- **How to deal with breaking?**

  Sometimes, the knitting needles will break during production because it can not bear long time running. And this will cause some broken zones. Generally, we will remove the broken zones and cut them into pieces according to customer's requirement. And with the customer's agreement, we may adjust the wire diameter to minimize the broken zones.
- **How to avoid creasing?**

  To avoid creasing, we package the knitted mesh roll with a paper core and then into a carton box.

Main applications

- Knitted wire mesh gasket and knitted wire mesh tape for shielding.
- Compressed knitted mesh and knitted mesh demister pad for filtering.
- Compressed knitted mesh rings for muffling.
- Knitted wire mesh balls for cleaning.

Hot products

- Stainless steel knitted mesh.
- PP knitted mesh.
- Copper knitted mesh.
- Compressed knitted mesh.
- Ginning knitted mesh.

Our services

- Free consultation service.
- Strict inspections during production and before delivery.
- Choose the most suitable shipping company.
- Free charge of mould cost for specific size next time.
- After sale service.

Information supplied by the purchaser

The following information shall be supplied by the purchaser at the time of inquiry or order:

- Type.
- Size.
- Quantity.

KNITTED MESH

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