



WIRE MESH EXPERTS

KNITTED MESH SOLUTIONS

Since 2015

SRK



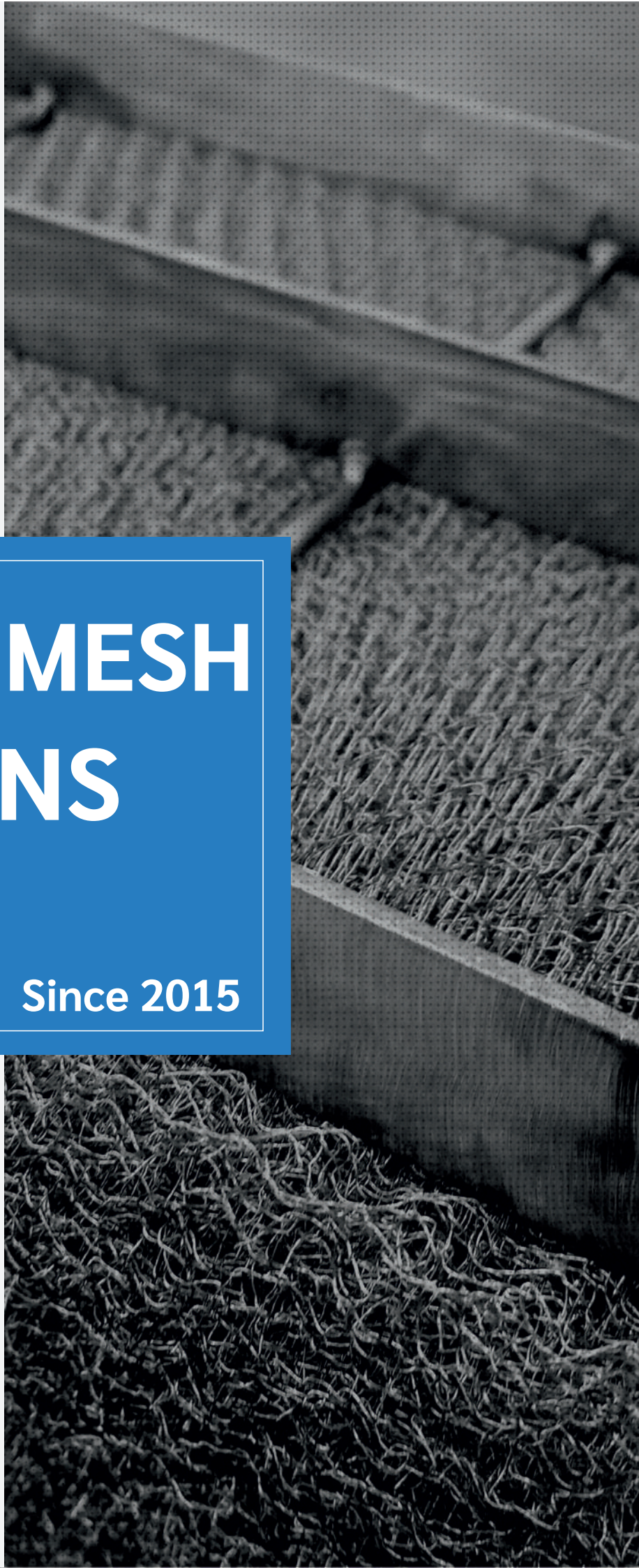
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WHO WE ARE

SRK Metals for top-quality wire mesh solutions that meet your Specific needs. We aim to exceed your expectations with our comprehensive product range, cutting-edge manufacturing capabilities, and unwavering commitment to excellence.

OUR HISTORY

SRK Metals is a leading high-tech organization and industrial cluster company based in India and UAE. Established in 2015, we have been at the forefront of innovation and excellence in our industry for over 8 years.

Our company comprises of one factory, boasting a vast production area spanning 4000 square meters. This state-of-the-art facility enables us to efficiently manufacture and deliver a wide range of products to meet the diverse needs of our clients

✔ Best Quality Support

✔ Professional Expertise

✔ 100% Quality Design



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
SRK-01	fine mesh	0.08 – 0.18	6 - 300	3.5	4.4
SRK-02	medium fine mesh	0.16	40 - 600	2.4	3.5
SRK-03	standard mesh	0.18 - 0.35	30 - 1000	1.6	1.9
SRK-04	coarse mesh	0.25 - 0.40	30 - 1000	1.6	0.74
SRK-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.

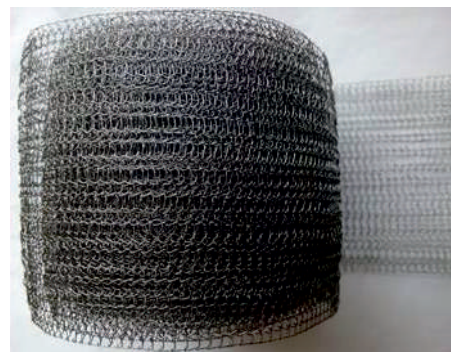


Advantage of Compressed Knitted Mesh

- 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.

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)
SRK-01	0.1 × 0.3	2 × 4	36	60	55
SRK-02	0.1 × 0.3	4.5 × 4, 2.5 × 4	34	150	100
SRK-03	0.1 × 0.4	4.5 × 5.5, 2.5 × 5.5	40	150	120
SRK-04	0.1 × 0.4	4 × 3.5, 2.5 × 3.5	56	205	180
SRK-05	0.1 × 0.4	4 × 4, 3 × 4	65	260	240
SRK-06	0.2 × 0.4	5.2 × 3.5, 3 × 3.5	94	420	380
SRK-07	0.2 × 0.4	7.5 × 5, 5 × 5	102	565	490
SRK-08	0.2 × 0.5	5 × 4, 2.5 × 4	128	560	470

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

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

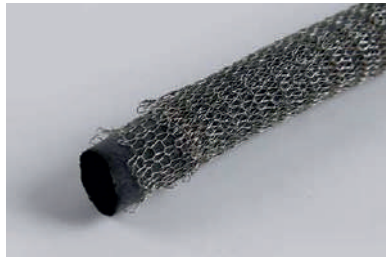
- High strength and stability.
- Corrosion and abrasion resistance.
- High temperature resistance.
- High performance of shielding.
- Durable and long service life.

Specification of Knitted Mesh Gasket

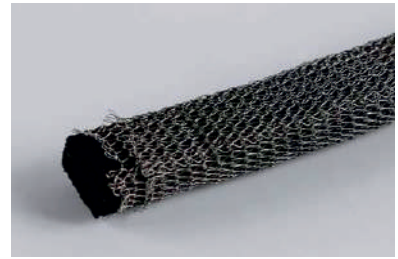
- Material: monel, aluminum, tinned copper steel, stainless steel wire.
- Wire diameter: 0.11 mm, 0.13 mm, and other diameters are available.
- Type of all metal gasket: common type, compressed type.
- Knitted mesh gasket style:



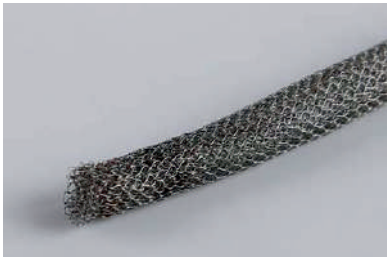
Elastomer core knitted gasket



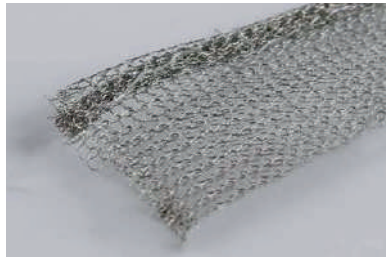
Foam core knitted gasket



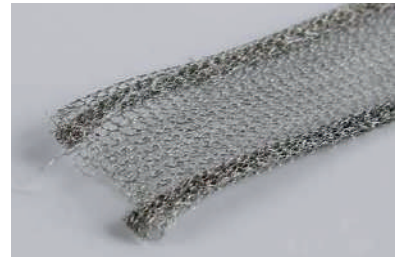
Rectangular knitted gasket



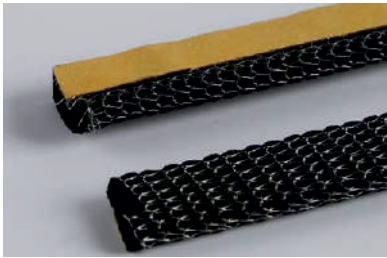
All metal knitted gasket



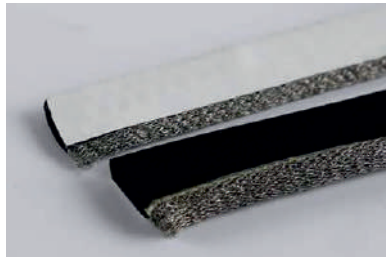
Tail knitted gasket



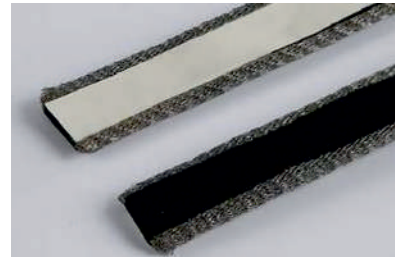
Double round knitted gasket



Knitted gasket with adhesive

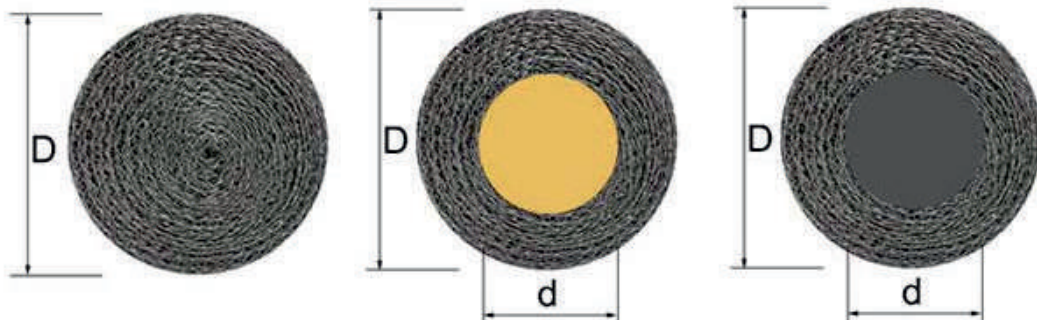


Single side knitted gasket



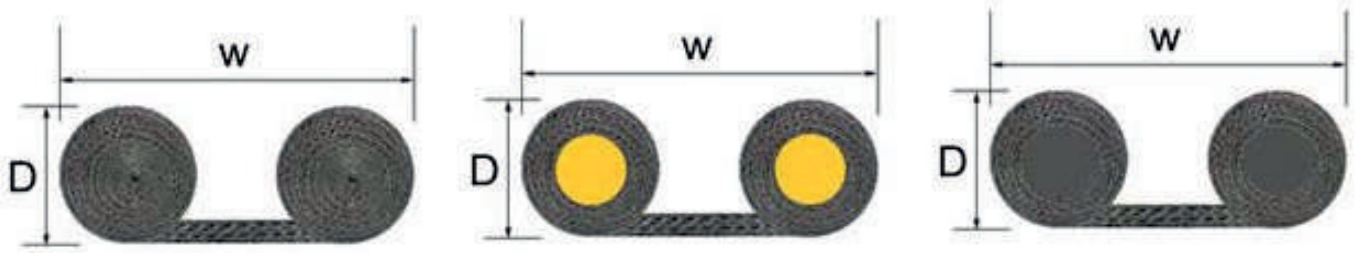
Double compressed gasket

Table 3: Specification of Round Knitted Wire Mesh Gasket



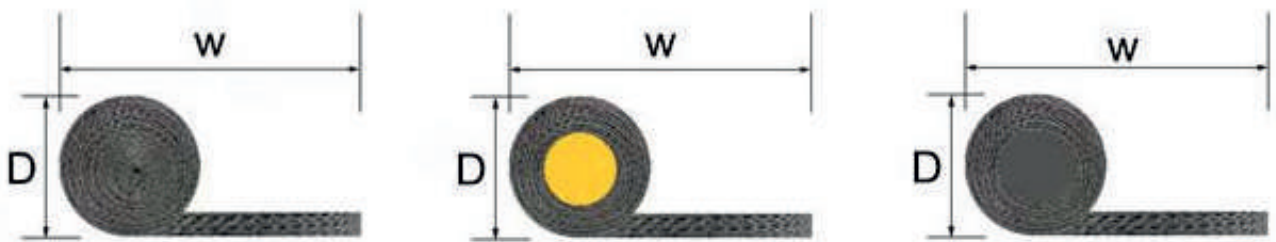
All Metal Round Shape		Foam or Elastomer Core Round Shape	
D (mm)	D (mm)	D x d (mm)	D x d (mm)
6.4	11.1	6.4 x 3.2	11.1 x 8.0
3.2	7.9	3.2 x 1.6	14.9 x 11.1
12.7	4.0	12.7 x 9.5	8.0 x 4.8
4.8	9.5	4.8 x 3.2	9.5 x 6.4
1.6	2.4	-	-

Table 4: Specification of Double Round Knitted Wire Mesh Gasket



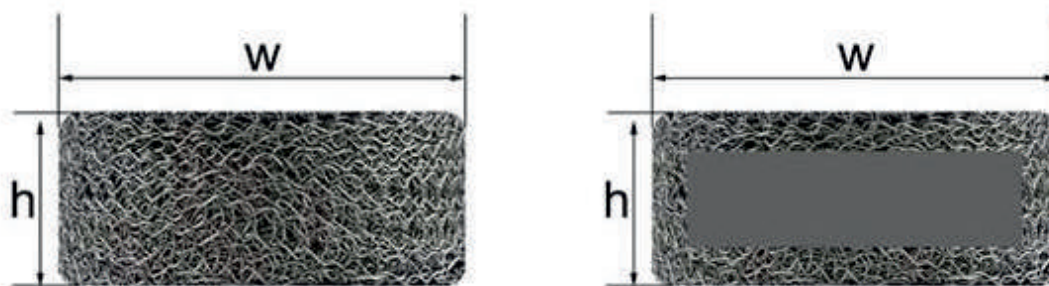
D x w (mm)	D x w (mm)	D x w (mm)	D x w (mm)
1.6 x 9.5	3.2 x 12.7	6.4 x 15.9	1.6 x 12.7
3.2 x 15.9	6.4 x 19.1	1.6 x 15.9	4.8 x 15.9
6.4 x 25.4	2.4 x 12.7	4.8 x 19.1	9.5 x 25.4
3.2 x 9.5	4.8 x 25.4	12.7 x 25.4	-

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



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

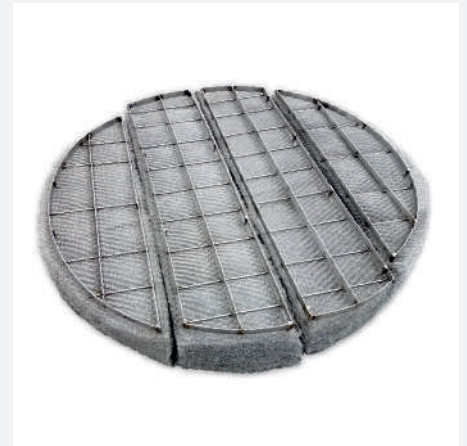
KNITTED WIRE MESH TECHNOLOGY

The Right Wire Grade for your Specific Demister Application

SRK Mesh is knitted on state of the art equipment under strict quality control processes to maximize separation efficiency and minimize pressure drop. Whether the process is mist elimination or oil coalescing, SRK offers mesh pad options in a variety of wire grades, diameters, alloys, mesh densities, and product geometries. Our knitted wire mesh and demister pads are manufactured at our Houston, Texas location.

Mist Eliminators / Demister Pads

SRK has materials and resources to meet your custom mist elimination requirements.



- Mist eliminators are customized specifically to meet each customer's specifications and equipment geometry.
- Mist eliminators are configured to ensure minimum liquid entrainment at maximum flow conditions.
- SRK-Mesh demister pads are engineered and fabricated for specific process conditions.
- Densities typically range from 5.0 to 12.0 lb/ft³.
- The industry standard size wire for mist eliminators is 0.011 inches (0.28 mm).

INDUSTRIES SERVED



OIL & GAS

SRK manufactures specialty and exotic wire grades to meet the highly demanding requirements of heat resistance, strength retention and reliability.

APPLICATIONS

SRK Mesh has the engineering capabilities to help customers fabricate the right solution for their particular application, not just manufacture to predetermined specifications. With all our core products produced in-house, we can offer full support when choosing the right wire grade for your exact requirements.

Demister Process Applications

- Gas-Liquid Separators
- Distillation Equipment
- Process Absorbers, Precipitators, and Scrubbers
- Chemical Separators and Extractors
- Oil and Gas Processing Equipment
- Combustion Gas Scrubbers
- Knockout Drums and Receivers
- Refinery Towers
- Liquid-Liquid Coalecers
- Pollution Control Equipment
- Two-Phase Eliminators
- Liquid Entrainment for Compressor Equipment
- Product Recovery Systems

CUSTOM QUALITY MANUFACTURING

Meeting exact customer product dimensional, ductility, and performance specifications requires specialized alloy selection and engineered manufacturing. SRK Mesh can be manufactured in a wide range of wire diameters, alloys, mesh densities, and product geometries under precise production and processing equipment capabilities. Srk produces the core products in-house that comprise the final product including wire, support rods and welding wire.



SRK Metals team is capable of producing a wide array of product configurations and geometries to your exact specifications:

- Wire grade selection and verification
- Drawing wire to exact size diameter
- Knit configuration setup
- Crimped for correct mesh density construction
- Pad fabrications and construction
- Final product geometry and dimensional control

QUALITY ASSURANCE

SRk Metals products are tailored to your requirements to ensure that your process is optimized and the product lasts.

- Engineering and fabrication consultation services
- Mechanical wire testing measures tensile strength, yield strength, and elongation
- Microscopy evaluation for alloy grain structure and surface quality
- Engineering and manufacturing process process step checks
- Final product thorough inspection
- Fast, reliable shipping, customized inventory and delivery programs
- Customer service: in person, on-line or over the phone



Drawing on Innovation.





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