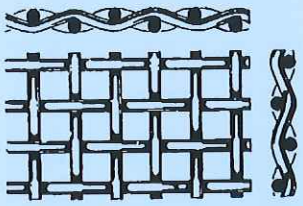
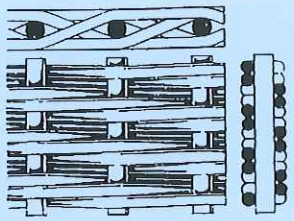
WIRECLOTH
SALES & DEVELOPMENT LTD

Woven Wire Mesh

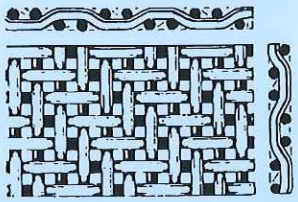
SQUARE MESH, PLAIN WEAVE
Wire cloth with square meshes. Plain weave gives maximum possible accuracy of apertures and is consequently the most widely used type of weave. Smallest aperture 28 my.



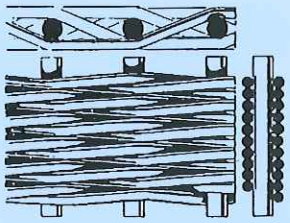
DUTCH TWILLED WEAVE
Also called "light-tight" weave. The weft wires are twill-woven to lie as close as possible. Qualities: maximum degree of accuracy in filtration low flow-rate, high pressure loss. Smooth on both sides. Smallest aperture 3 my. (nominal).



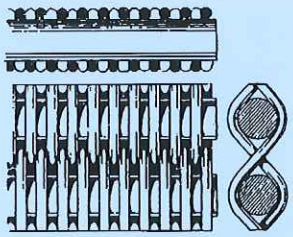
SQUARE MESH. TWILLED WEAVE
Wire cloth with square meshes having a slight diagonal displacement. Mostly fine wire cloth with apertures under 63 micrometers and specifications woven with especially thick wires. Smallest aperture 25 my.



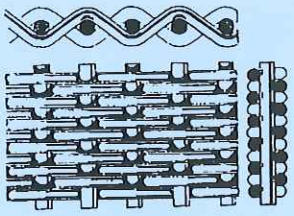
BROAD MESH TWILLED DUTCH WEAVE
In contrast to the Dutch Twilled Weave, which is light-tight, the weft wires lie loosely against each other. Qualities: satisfactory degree of accuracy in filtration, high flow-rate, moderate pressure loss. Smooth on both sides. Smallest aperture 20 my.



REVERSE PLAIN DUTCH WEAVE
Has warp wires of relatively thin diameters lying as close as possible to one another, and the weft wires are particularly strong. Qualities: satisfactory degree of accuracy in filtration, high flow-rate, small pressure loss. Uneven surface on both sides. Smallest aperture 14 my.

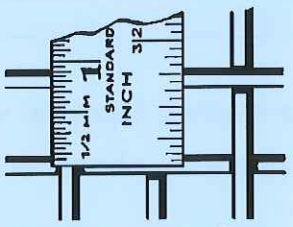


SINGLE PLAIN DUTCH WEAVE
The weft wires are plain woven to lie as close as possible against each other. Qualities: high degree of accuracy in filtration, high flow-rate, moderate pressure loss. Uneven surface on both sides. Smallest aperture 15 my.



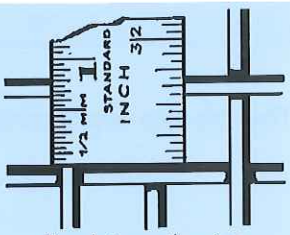
Typical Specifications

METHOD OF MEASURING MESH
"Mesh" means the number of openings per lineal inch measured from centre to centre of wire: thus the illustration shows 3 mesh or 1/3" centres.



From centre to centre of wire.

APERTURE OR CLEAR MESH
"Aperture or clear mesh" means the actual opening between the wires: thus the illustration shows 1/4" clear mesh or aperture.



Here between the wires.

METALS USED
Each mesh can be made in several gauges of wire according to aperture required and almost all metals: plain steel, tinned steel, galvanised steel, steel, galvanised after woven, copper, brass, phospher bronze, stainless steel, monel, nickel, aluminium and its alloys and special metals.

HOW TO ORDER
1. State metal required.
2. The number of rolls or pieces required, also the length and width.
3. Meshes per lineal inch or size of aperture.
4. Thickness of wire in decimals or s. w. g.
   If in doubt please submit sample.

Woven Wire Mesh

Mesh	Wire Diameter		Aperture		Approx. Open Area
	mm	nom s.w.g.	Inches	mm	%
2	1.6	16	0.436	11.07	76.0
3	1.6	16	0.269	6.84	65.3
4	1.2	18	0.202	5.13	65.3
4	0.914	20	0.214	5.44	73.3
5	1.016	19	0.160	4.06	64.0
6	1.2	18	0.118	3.01	60.7
6	0.914	20	0.130	3.32	61.5
7	0.813	21	0.111	2.82	60.3
8	0.914	20	0.089	2.26	50.7
8	0.711	22	0.097	2.46	60.2
10	0.914	20	0.064	1.63	41.0
10	0.559	24	0.078	1.98	60.8
12	0.559	24	0.061	1.56	54.1
16	0.457	26	0.045	1.13	50.7
16	0.355	28	0.047	1.21	58.3
16	0.233	34	0.053	1.40	72.0
18	0.355	28	0.040	1.03	54.0
20	0.457	26	0.032	0.81	41.0
20	0.355	28	0.035	0.90	50.0
24	0.345	29	0.028	0.71	45.2
28	0.355	28	0.021	0.53	34.2
30	0.315	30	0.021	0.53	39.3
30	0.274	32	0.023	0.57	45.6
36	0.193	36	0.020	0.51	52.9
40	0.233	34	0.016	0.40	40.0
50	0.213	35	0.011	0.29	33.6
50	0.193	36	0.012	0.31	38.4

Mesh	Wire Diameter		Aperture		Approx. Open Area
	mm	nom s.w.g.	Inches	mm	%
60	0.160	37	0.010	0.25	35.5
70	0.132	39	0.009	0.23	40.6
80	0.132	39	0.007	0.18	34.1
100	0.111	41	0.006	0.14	31.4
120	0.071	43	0.0055	0.14	43.6
150	0.065	45.5	0.004	0.105	38
180	0.061	46	0.003	0.080	33.2
200	0.050	47	0.003	0.076	36.0
250	0.040	48	0.002	0.060	36.0
300	0.030	49	0.002	0.054	40.5
325	0.0028	49.5	0.002	0.050	42.3
400	0.025	50	0.0015	0.038	36.0

Hollander Meshes

Mesh	Micron Nominal	Retention Absolute
12 × 72	-	500 - 600
14 × 88	-	280 - 300
24 × 110	80	112 - 125
132 × 32	80	95 - 105
40 × 200	56	75 - 80
50 × 250	40	56 - 63
20 × 250	100	110 - 120
165 × 1400	10	15 - 18
200 × 1400	5	11 - 13
325 × 2300	2	7 - 8

The above represents a selection of our most popular meshes, however we do carry a substantially larger range. If you don't see what you require please phone for more information.

ISO 9002 Lloyd's Quality Assured Firm

NATIONAL ACCREDITATION OF CERTIFICATION BODIES

Certificate No. 900357

WIRECLOTH SALES & DEVELOPMENT LTD

11A EAST VIEW, GRAPPENHALL, WARRINGTON, CHESHIRE WA4 2QH

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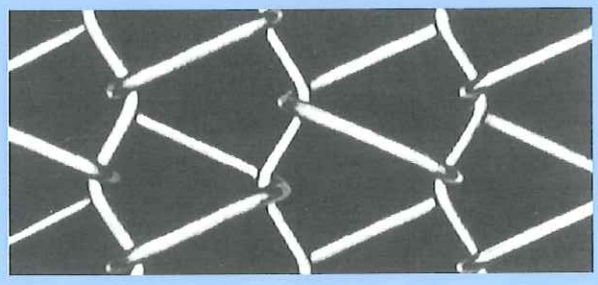
Conveyor belts are probably one of the most important aids to manufacturing and processing industry today. They are strong, durable and capable of withstanding extremes of temperature from freezers operating at - 160° centigrade to furnaces operating at 1150° centigrade.

Mesh sizes and gauges of wire are almost completely variable in a wide selection of metals.

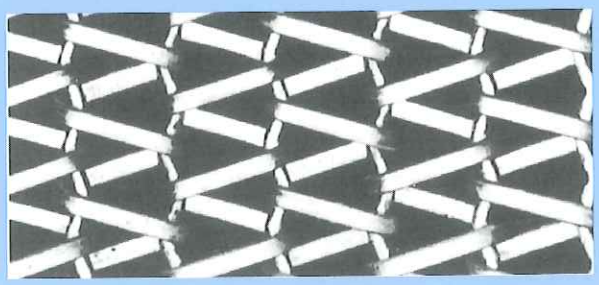
WIRECLOTH SALES & DEVELOPMENT LIMITED can arrange for our conveyor belts to be chain, or friction drive, or in some cases to be driven by sprockets directly into the belt. We can supply "pilot-bored" sprockets in various diameters to suit your belts. We can offer expert advice on the correct belt for your application.

Please don't hesitate to phone.

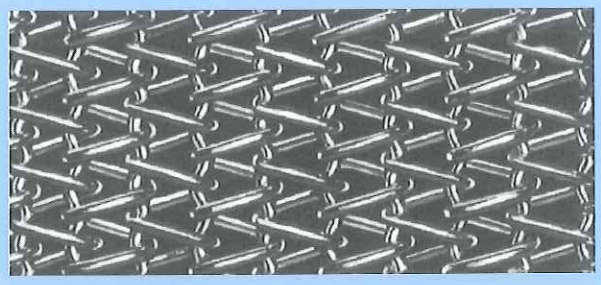
BS-W 12-12-12-12



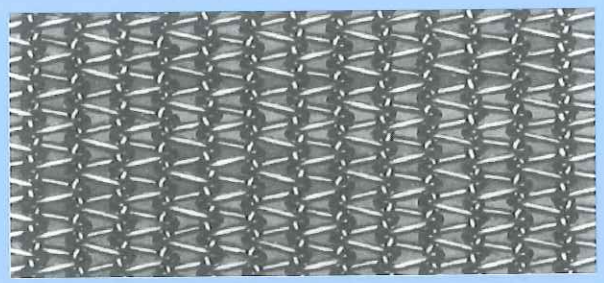
BSF-W 24-1/8 x 16-20-10



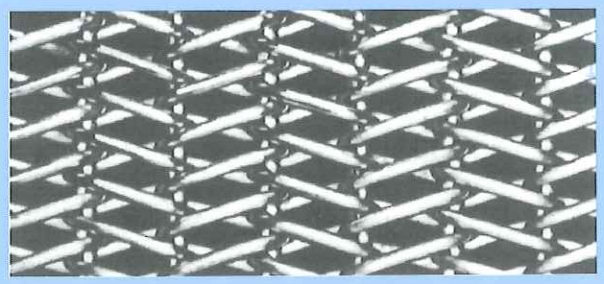
BS-W 36-14-32-14



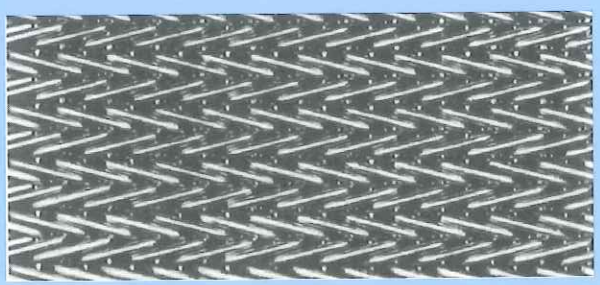
BS-W 60-16-48-16



DB-W 48-14-24-10



Cordweave 4 40-16-90-16



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FILTERS
SUPPLY AND MANUFACTURE

"Wirecloth Sales & Development Limited" supply a comprehensive range of filters to industry. These products range from a simple disc or cut piece of woven wire mesh, all the way up to a multi-layer knitted pad, enclosed in a box for easy replacement in the field. We supply "one off" and small runs just as easily as large runs.

DEVELOPMENT

"Wirecloth Sales & Development Limited" have accumulated vast reserves of experience in the development of filtration products, so if you are looking to design a filter give us a ring and avail yourself of our experience.

SERVICE AND REPAIR

"Wirecloth Sales & Development Limited" offer a service and repair facility for specialist filters, where repair is a cost effective solution. To reduce your maintenance cost please give us a ring.

TELEPHONE: (01925) 268417
FAX: (01925) 604861
EMAIL: Wireclothsales@aol.com
www.wireclothsales.co.uk

WIRECLOTH
SALES & DEVELOPMENT LTD

KNITTED WIRE MESH

What is Knitted Mesh?

Knitted mesh, as its name implies, is a metal wire or plastic strand knitted into an interlocking looped mesh structure the same way as stockings, and should not be confused with woven mesh, which is the form of rectangular openings of parallel wires. The knitted mesh has a flexibility, not possessed by the woven mesh, due to the loops being able to move relative to each other thereby giving a two-way stretch. This flexibility gives knitted mesh a unique advantage for many industrial uses.

Forms of Knitted Mesh

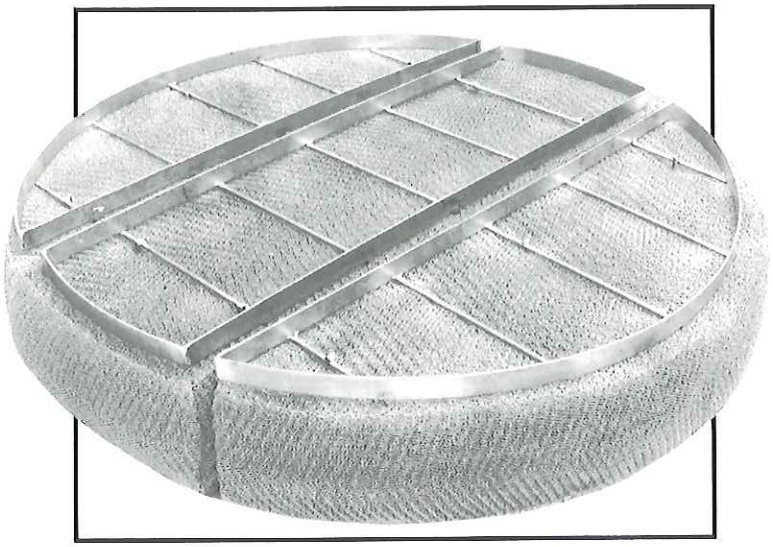
Knitted mesh is produced in a long flat double thickness from 0" to 28" seamless width on a cylindrical machine. The output is a continuous stocking of mesh, which is pulled through the knitter by take-up rollers. It can be used directly in this flattened form as an insulation covering or it can be further processed into several other basic forms. Flattened mesh is sometimes run through corrugating rolls to create crimped mesh. In this form the corrugations act like springs for resiliency and give mesh thickness.

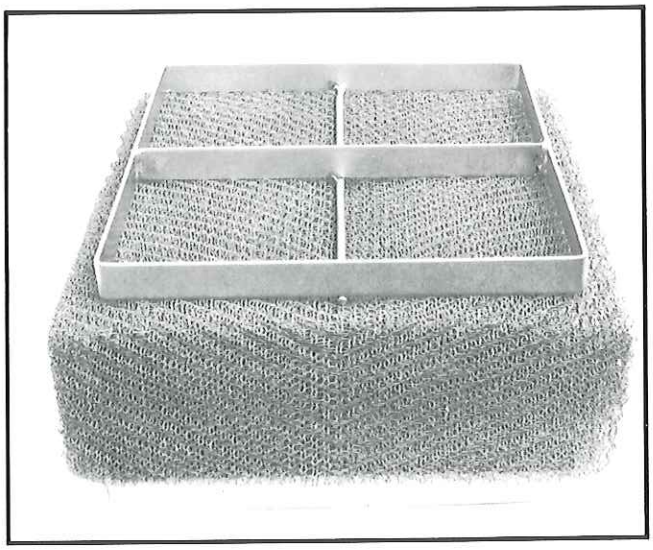
Materials

The usual materials are metals, aluminium, monel, stainless steel, nickel, copper, galvanised steel, and plastics, poly-propylene and nylon.

Mesh Sizes

The most popular meshes are between 3 and 8 openings to the linear inch. Almost any material that can be drawn into a filament smaller than 0.012" (0.31 mm) for metals (plastics from thicker filaments) can be knitted providing that it has been suitably drawn.





Properties of Knitted Mesh

Knitted mesh has both a large surface area of wire and a high percentage of free space. The open space in a mesh can be controlled from 50 to 98% since it is possible to knit meshes of a wide range of opening sizes regardless of wire diameter These features become important in uses such as filtration where flow resistance is critical. Another feature of knitted mesh is its inherent resiliency. Every loop of the knitted structure becomes a small spring when subjected to tensile or compressive stress, and when not distorted too drastically, will immediately resume its original form upon relief. Even when the mesh is compressed into a special shape a high degree of resiliency is retained. This can be controlled by varying sizes of opening, wire diameter and material, crimping and pressure used to create the part. Compressed, layered, calendered and wound mesh units all have the common property of presenting a "Tortuous Path" to the flow of liquids or gases through them. This is used in filtration, diffusion, distillation and flame arrestors.

Applications

Air filtration; Liquid filtration; Flame arrestors; Vibration and shock mount cushions; Sound reduction; Insulating blanket covering; High temperature gaskets and packing; Silencers; Heat exchangers; Humidifiers; Cable sheathing; Demister.

Delivery & Service

Knitted mesh is supplied by weight and to customers requirements. With the popular materials we can usually deliver within 3 to 4 days of receipt of order.

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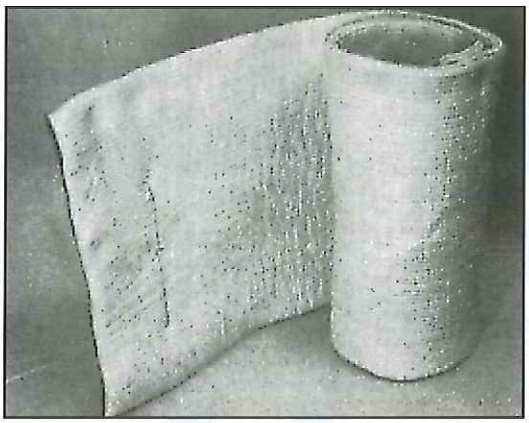
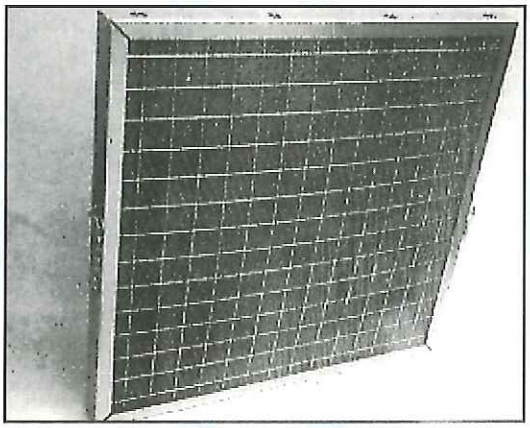
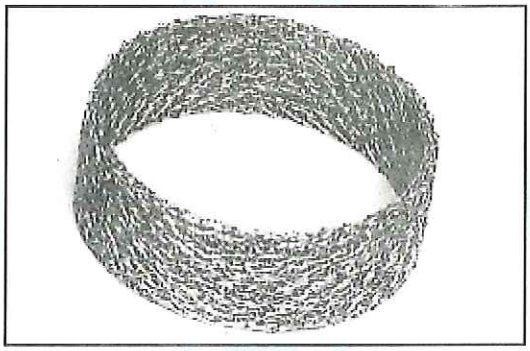
CERAMIC FIBRE BLANKET ENCLOSED WITH KNITTED MESH FOR HIGH TEMPERATURE INSULATION



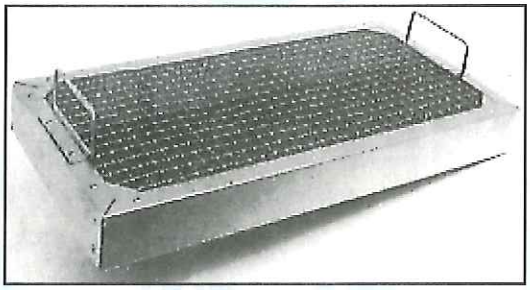
AIR CONDITIONING & DUST FILTRATION



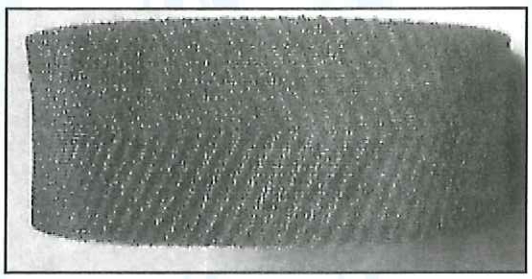
COMPRESSED WASHERS FOR THE AUTOMOTIVE INDUSTRY



CRIMPED MESH INFIL PADS FOR GREASE FILTERS



HEATWHEELS



R.F.I. (RADIO FREQUENCY INSULATION)