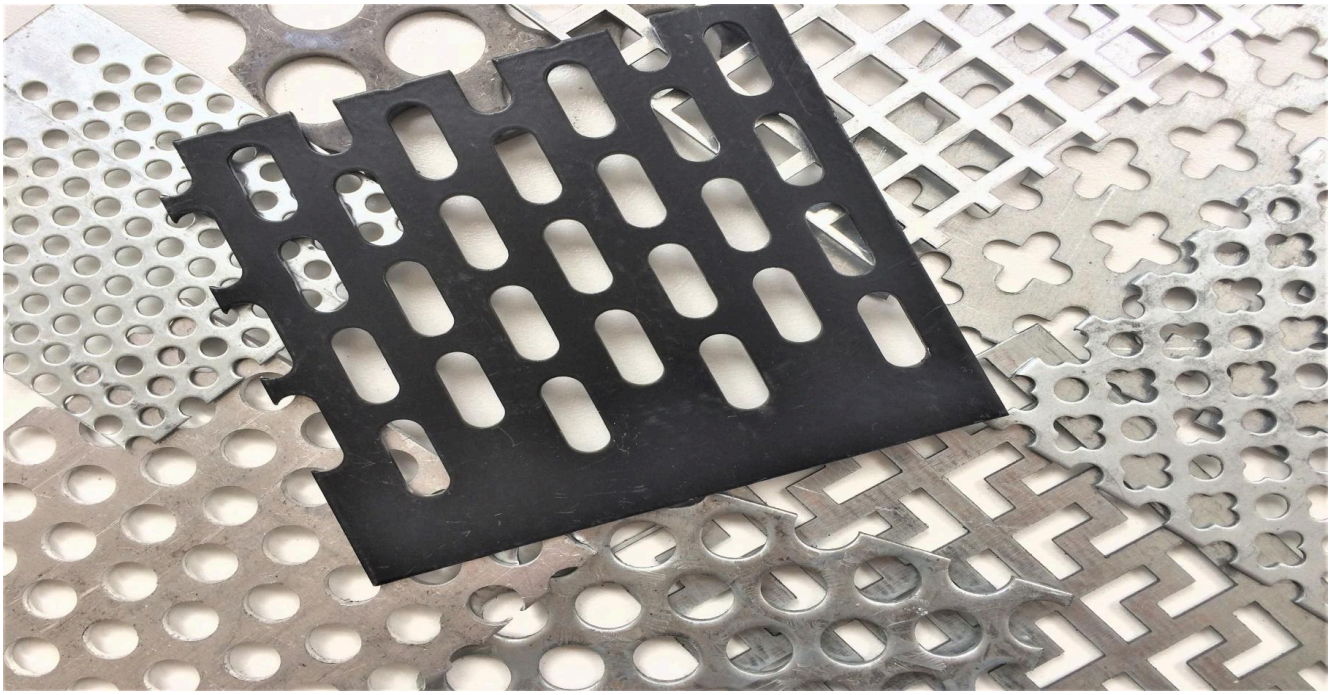
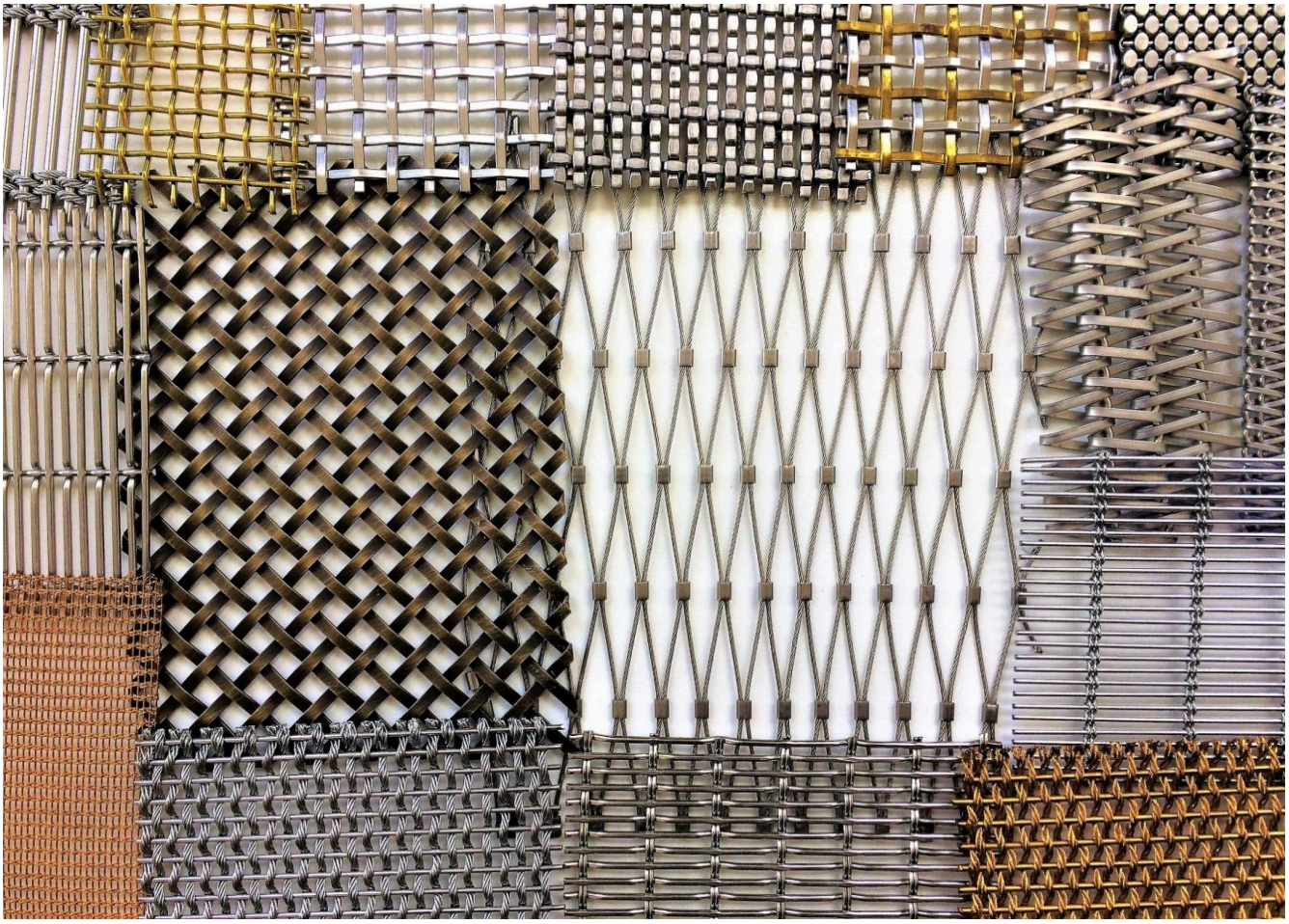




A1 METAL MESH SCREENS

Introduction

Introduction to A1 metal mesh screens

You can choose from a range of woven wire mesh in different materials – stainless steel, copper, brass and bronze. The welded mesh of rolls or sheets and perforated metal, Architectural & decorative mesh. We also supply discs, cylinders, screens, wire mesh belt, filters and all kind of wire mesh products.

We hold stock of woven wire mesh from 1 mesh to 500 mesh in stock in our warehouse. We also supply the custom perforated metal.

About A1 Metal Mesh Screens

We have been supplying metal mesh for decades. Access to other companies has allowed us to expand our range to meet your needs. We always listen to our customers and use their suggestions to improve our product ranges.
Customers can choose from our full range of woven wire mesh, welded mesh, architectural and decorative mesh, and custom fabricated wire mesh products as per the customer's requirement.
Woven wire mesh comes as a standard market grade stainless steel woven wire mesh, stainless steel bolting cloth mesh, stainless steel Hollander weave mesh, Dutch weave mesh, and stainless steel welded wire are all held in stock.
We keep many different specifications of perforated metal in stock. We also offer a custom perforated metal as per the customer's specifications.
Our products are used in milling, food, dairy industries, beverages, chemicals, pharmaceuticals, mining, plastic processing, refining, recycling, construction, interior decoration, fabrication, household items, architectural application, bulk food handling, oil

Contents

and gas exploration, security door products, and fencing.
We are a trusted source for supplying mesh.
For expert advice on more technical information on the mesh and perforated applications, please call us.

Quality

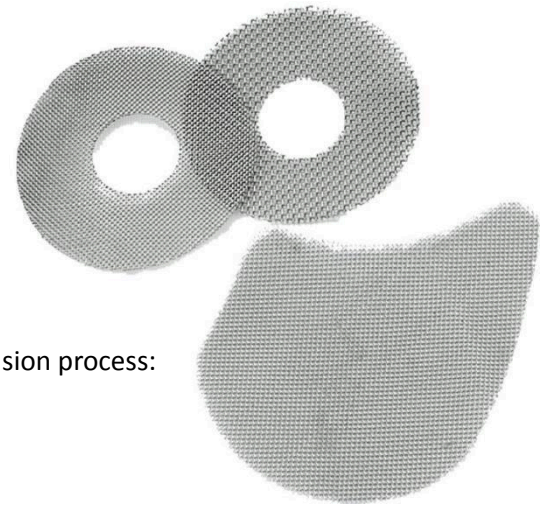
Quality Control
We ensure that the metal mesh supplied meet or exceed our standards and customer's requirement.

Material Identification

We identify the material before we deliver it to the customer, but the customer also must check the delivered product before they use for their job.

Metal Mesh Extruder Discs

Features



- Precisely punched to exact diameter.
- Single or multi-layer design.
- Available in most diameters and mesh
- types.
- Also available in the belt for continuous extrusion machine.

Applications

Wire mesh discs are used in the following industries as part of the extrusion process:

- Polymers
- Plastic & rubber recycling
- Cable manufacturing
- Plastic extrusion process.

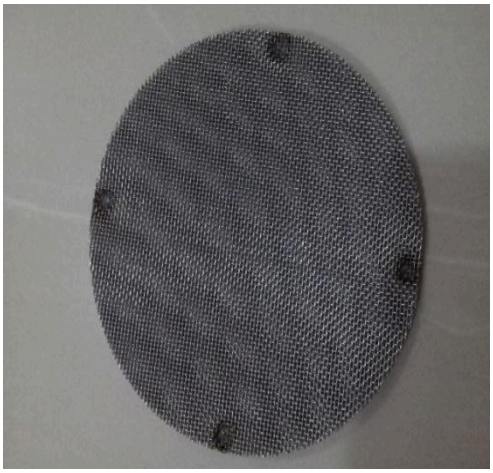
High-grade woven wire meshes are used to manufacture the discs. They are precisely punched to perfectly fit and are easy to install and remove.

The mesh provides optimal classification performance and consistency with every batch.

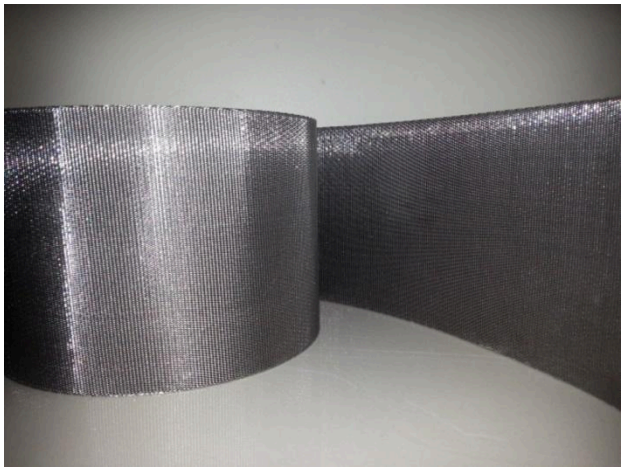
We also supply screen packs consisting of multiple layers of woven wire mesh that have been spot-welded together.

Disc Typical Sizes – Punched Discs

Diameter mm	Heaviest wire type
Minimum 5mm to 500mm	1mm

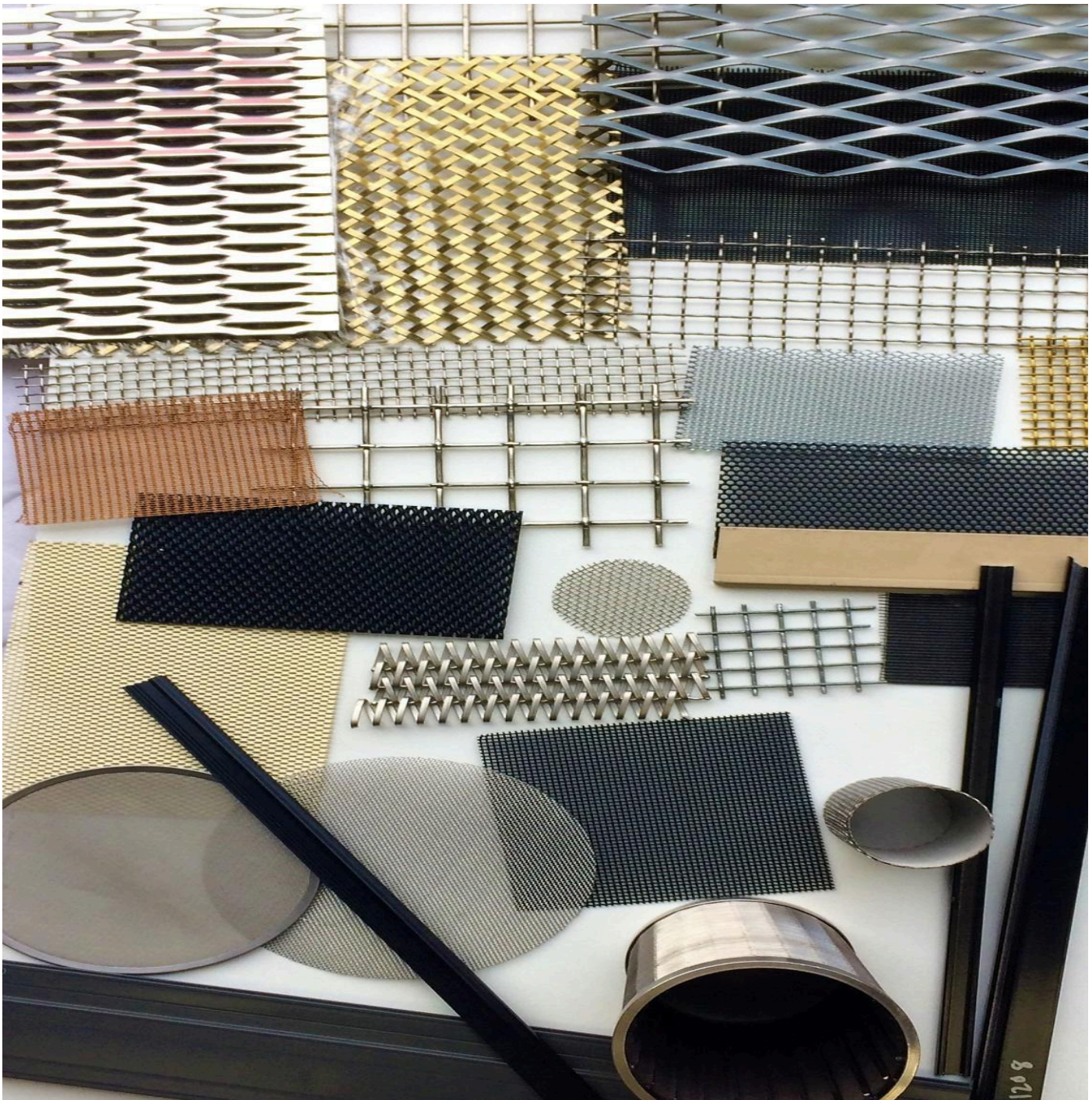


Extruder disc spot welded



Continuous Extrusion wire mesh belt

Woven Wire Mesh/ Welded Mesh – Product Range



Terminology/ Glossary

Mesh Count

The mesh count is the number of wires per inch.

- Whole Number or Fraction. Mesh count is identified as the distance from centre to centre of the parallel wires horizontally and vertically.

Open Area: Example calculation = ((D67*D67)/ ((D67+C67)*(D67+C67)))*100 =47%

The open area of a screen (OA) defines the mesh openings as a percentage of the entire screen surface. It is based on the ratio between aperture size (w) and wire diameter (d).

Term	Description
Absolute filter rating	99% efficiency for filter rating.
Nominal filter rating	70-90% efficiency for filter rating.
Aperture	Distance between wire threads. Measured in microns or millimetres.
Pitch	Distance from centre to centre of wire threads.
SWG	Standard Wire Gauge (Imperial measurement).
Imperial mesh	Number of apertures counted in a row.
Weft	Wire threads running the width of the roll.
Warp	Wire threads running the length of the roll.
Micron	1/1000 of a millimetre.
Open area	Percentage of free area in mesh or metal.
Blinding	Blockage/ restriction of the apertures of a sieve or filter by particles.
Differential pressure	Pressure ratio upstream and downstream from the filter.
Dry screening	Screening powdered materials without liquid.
Mesh analysis	Separation of a bulk material sample and analysis of particle size.
Mesh fineness	Number of wires per inch (Imperial measure).
Mesh thickness	Calculated according to wire diameter and mesh type.
Service life	Operational life of scree/ mesh until it requires replacement.
Square weave mesh	Mesh woven with wires spaced at a distance, giving open apertures.
Twilled weave	Mesh type giving small filter pores.

Choosing the Right Materials

Stainless Steel

A majority of A1 metal meshes are woven using stainless steel.

Stainless steel type	Material code	Code	% C max	% N max	% Cr	% Ni	% Mo	Other %	Temp resist. Deg. C
304	1.4304	X 5 Cr Ni 18.9	0.04	0.1	18	9			450
304L	**1.4306-07**	**X 2 Cr Ni Ti 189**	**0.02**	**0.1**	**19**	**9**			**450**
316	1.4401	X 5 Cr Ni Mo 18 10	0.04	0.1	17	11	2		450
316L	**1.4404**	**X 2 Cr Ni Mo 18 10**	**0.02**	**0.1**	**17**	**11**	**2**		**450**
904L	1.4539	X 3 Cr Ni Mo N 1713 25	0.01		20	25	4.3	1.5 Cu	500
430	1.4016	X 8 Cr 17	0.04		16.5				450
310	1.4841	X 15 Cr Ni Si 25 20	0.2	0.1	25	20			1000
330	1.1864	X 12 Cr Ni Si 36 16	0.05	0.1	17	36			1000

This table provides an overview of the various material characteristics and is not a comprehensive list. It doesn't contain all the information about the various alloys.

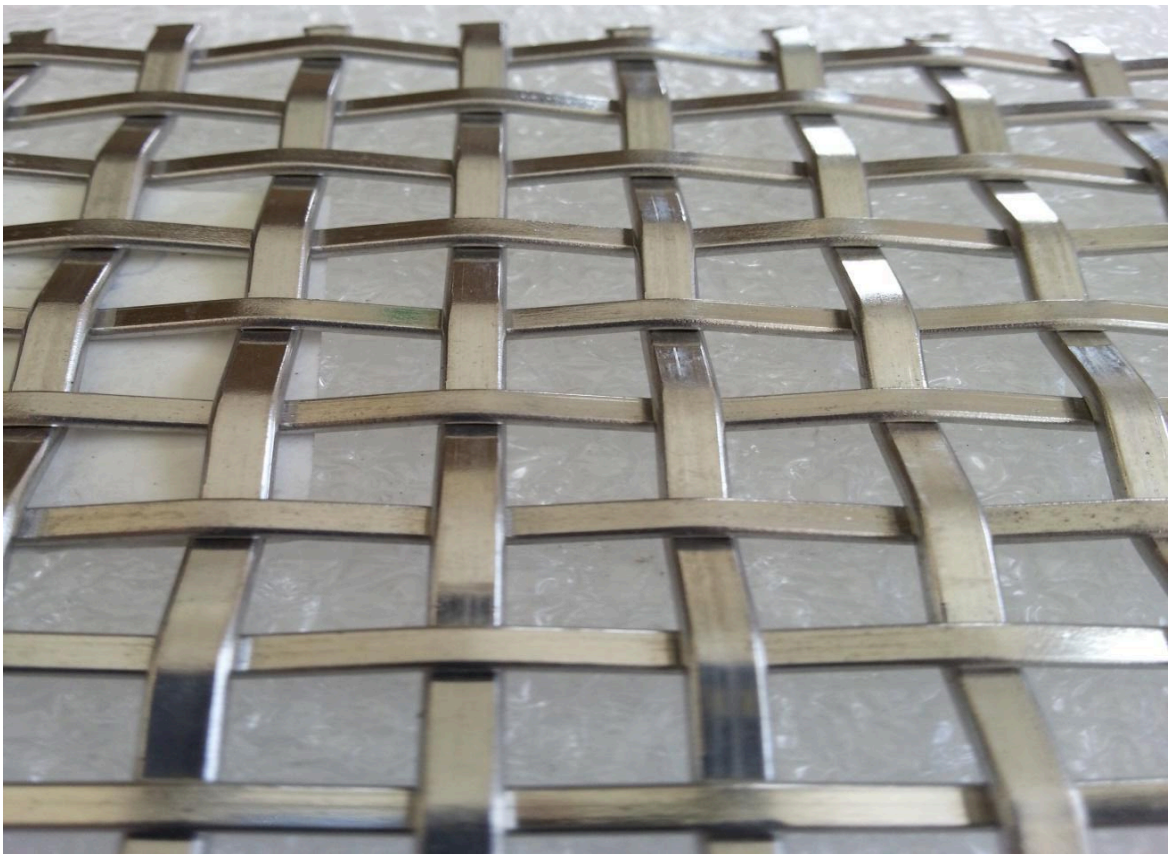
304 Grade Stainless Steel

In a wide range of media, grade 304 has corrosion resistance. In most architectural applications, it resists ordinary rusting. 304 is also resistant to most food processing environments, can be readily cleaned and resists organic chemicals, dyestuffs and a wide variety of inorganic chemicals. It is typically used in architecture, food and beverage processing, equipment and utensils, commercial and domestic kitchen construction, sinks and equipment for chemical, petrochemical, mineral processing and other industries. Still, 304 grade can get tea staining in some cases.

316 Grade Stainless Steel

Grade 316 also has excellent corrosion resistance in a wide range of media. The main advantage of using 316 over 304 is that 316 has an increased ability to resist pitting and crevice corrosion in warm chloride environments. It is mostly used in boat fittings and structural members, architectural components particularly in marine, polluted or industrial environments, food and beverage processing equipment, hot water systems and equipment for chemical, petrochemical, mine processing, photogenic and other industries.

Group	Material designation
Heating conducting alloys	Nickel-Chromium steel, Alu-chromium
Special alloys	Incoloy 800, 825, 625, 600
Nonferrous metals	Copper, brass, tin bronze, nickel, monel, aluminium
Hastelloy	Hastelloy C4, B2, C270
titanium	Titanium, tantalum



Choosing the Right Materials – Stainless Steel Maintenance and Protection

Maintenance and Protection

- Off the machine condition
- Surface treatments
- Tea staining
- Maintenance
- Cleaning guide

Stainless Steel

Material that is supplied from A1 metal mesh screens is in an “off the machine” condition. This means it may have residual oil and steel fragments from the process of weaving, perforation or fabrication.

To gain the quality outcome required for stainless steel, A1 metal mesh screens recommends the material be pickled and Passivated after manufacture in order to clean all residual oil and steel fragments from the surface.

When the material is installed in an external environment, a maintenance program should be implemented to clean airborne particles from the surface. The method of cleaning will depend on where the material is installed; therefore, A1 metal mesh screens recommends sourcing information from the Stainless Steel Association or a reputable surface finishing company.

Choosing the Right Materials – Tea Staining

Stainless steel may get “tea stains” over time. Wind exposure, pollution and elevated temperatures can accelerate this brown discolouration. This is only visual impairment and it will not affect the life or strength of the product.

Washing your stainless steel mesh will reduce tea staining and should be an important project design consideration. Depending on the location of the installation: warm soapy water washed off with cold water afterwards will be sufficient or an industrial cleaning product supplied by a reputable surface finisher may be suitable in more harsh conditions.

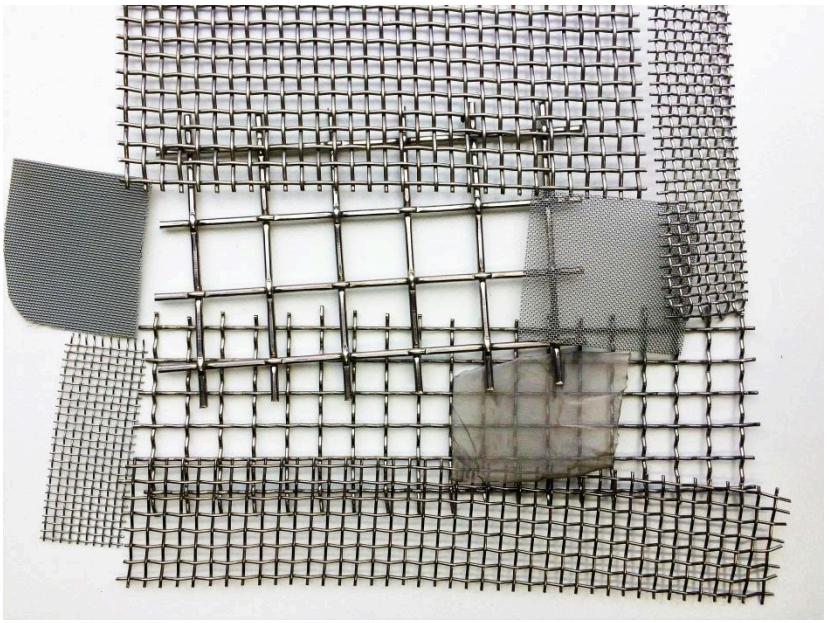
Important:

- Do not use chemicals, harsh scrubbing tools or scorers.
- Do not rub stainless steel with steel wool or scrape with steel tools.
- Do not use scourers or cleaning cloths that have been used on ordinary steel.
- Do not use concentrated bleach or hydrochloric acid-based cleaning products.
- If left in contact with salts or acids for extended periods stainless steel may discolour.
- For domestic application as a natural cleaner, rainwater is effective.
- More frequent cleaning intervals are required for stainless steel not exposed to the elements.

Guide to Selecting Stainless Steel and the Recommended Cleaning Intervals

Environment	Grade 304	Grade 316
Clean inland	3 – 6 months	6 – 12 months
Polluted urban/ industrial	Not suitable	6 – 12 months
Coastal/ marine	Not suitable	3 – 6 months

Choosing the Right Woven Wire Mesh



Choosing the right mesh

There are many factors to consider

When choosing the right mesh:

- Aperture size
- Wire diameter
- Materials
- Roll length
- International standards

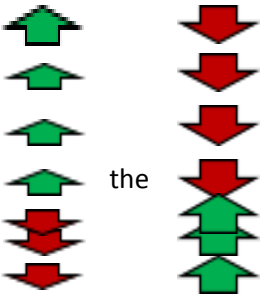
Aperture size

Parameter	Thinner wire	Thicker wire
Screening efficiency		
Flow		
Open area		
Number of apertures		
Abrasion resistance		
Strength		
Weight		

Aperture size determines the size of the particles to be eliminated. We offer standard meshes from 22mm to 25 microns.

Wire Diameter

Stronger and more robust meshes have thick wires the service life also lasts the thicker wire will reduce the open area of the mesh and therefore reduce sifting performance.



longer. Although, screening or

Keeping the same aperture size, whilst reducing the wire diameter increases apertures within a defined surface area. This will increase both efficiency

the

number of and performance.

Materials

The most popular material for the mesh is stainless steel. There is a range of other materials to choose from.

Mesh dimensions

Open area	Mesh type	Apertures
> 60%	Extra light	0.56 – 16
48 – 60%	Light	0.212 – 5
36 – 48%	Standard	0.038 – 2
< 36%	Heavy	0.02 – 0.6

Standard widths are 1220mm and 1530mm. Standard roll length is 30mt but smaller length or cut to length can be supplied.

Mesh selection

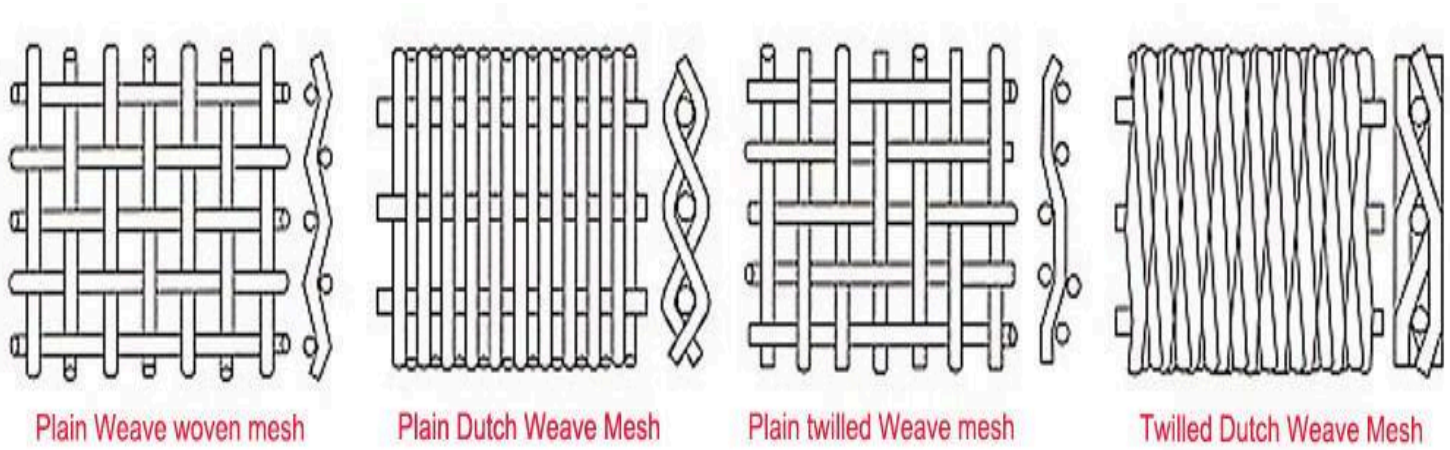
Mesh selection, particularly fine meshes, depend on many process details and can often only be selected by carrying out trials.

The open area is influenced directly or indirectly by the service life of the screen.

Choosing the Right Weave/Mesh Type

The following types of weaves are available:

- Plain weave/ square mesh
- Rectangular mesh
- Plain Dutch weave
- Dutch twilled weave



Crimped woven Wire mesh

Plain Weave/ Square Mesh

Extremely exact mesh sizes are a characteristic of the plain weave/ square mesh. The weft wires wrap over and under the warp wires constantly in an alternating pattern.

Plain Dutch Weave

In this weave type, the warp wires are stronger than the weft wires. The weft wires are positioned closely to each other to make the "Zero-Mesh". Good flow rate and even openings are the benefits of this mesh.

Dutch Twilled Weave

To this weave the weft wires are forced together during weaving. Compared to the plain Dutch weave this mesh has doubled the number weft wires, this provides a smooth surface for ultra-fine filtration applications.

Rectangular Mesh

The rectangular mesh is also called oblong/ broad. The most common metal ratio is 1:3, when reversed the mesh is known as broad mesh. This mesh is used for vibrating sieving screens or other architectural applications.

Crimped Screen

The wires in this mesh are crimped in both directions and combined to create a robust wire screen with a stable form and surface. It is suitable as protective screens for fences, gates and partitions for rack shelving systems.

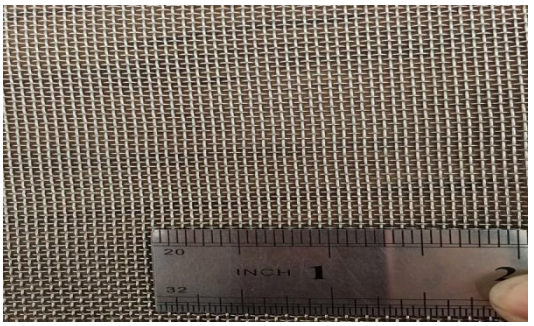
Welded Mesh/ Welded Screen

This mesh is similar to reinforced meshes. The horizontal wires (roll width) are secured by spot welding to the vertical wires (roll length). The screen has a high level of stability due to these constant connection points.

Woven Wire Mesh – Square Mesh

Stainless Steel

Overview



- Commonly used for the industry is the market grade stainless steel woven wire mesh.
- Rolls up to 30m in length and 1.53m (1530mm) in width are available in grades 304 and 316.
- Mesh can be cut a specific size.

How to inquire about wire mesh:

- Which mesh?
- What is the wire thickness & aperture of mesh?
- The width of the roll and length of the roll.

Product code	Approx. aperture		Mesh Per inch	Wire Dia		Approx. open	Approx. Wire Gauze
	mm	micron		mm	inch	Area %	
SSWM01-10	22.4	22400	1 I/C	3.15	0.124	77%	10
SSWM0.75-12	16	16000	0.75 I/C	2.5	0.0984	75%	12
SSWM1.6-10	12.7	12700	1.6 I/C	3	0.118	65%	10
SSWM02-16	11.2	11200	2 I/C	1.6	0.063	77%	16
SSWM02-14	10.6	10600	2 I/C	2	0.078	70%	14
SSWM02-12	10	10000	2 I/C	2.5	0.105	63%	12
SSWM03-16	6.8	6800	3	1.6	0.063	67%	16
SSWM03-14	6.3	6300	3	2	0.08	57%	14
SSWM3.5-18	6.1	6100	3.5	1.2	0.047	69%	18
SSWM04-19	5.3	5300	4	1	0.0394	71%	19
SSWM04-18	5.1	5100	4	1.2	0.049	65%	18
SSWM04-16	4.7	4700	4	1.6	0.063	55%	16
SSWM05-18	3.9	3900	5	1.2	0.047	58%	18
SSWM05-16	3.5	3500	5	1.6	0.063	46%	16
SSWM06-20	3.3	3300	6	0.91	0.035	61%	20
SSWM06-18	3	3000	6	1.2	0.047	51%	18
SSWM06-16	2.7	2700	6	1.6	0.063	38%	16
SSWM08-26	2.72	2720	8	0.45	0.018	74%	26
SSWM08-22	2.5	2500	8	0.7	0.028	60%	22
SSWM08-20	2.3	2300	8	0.91	0.035	51%	20
SSWM08-18	2	2000	8	1.2	0.047	38%	18
SSWM09-20	1.9	1900	9	0.91	0.035	46%	20
SSWM10-26	2.1	2100	10	0.45	0.018	67%	26
SSWM10-24	2	2000	10	0.56	0.022	61%	24
SSWM10-23	1.9	1900	10	0.61	0.025	58%	23
SSWM10-22	1.82	1820	10	0.71	0.028	52%	22
SSWM10-21	1.74	1740	10	0.8	0.032	46%	21
SSWM10-20	1.6	1600	10	0.91	0.035	41%	20
SSWM10-25	1.6	1600	12	0.5	0.02	58%	25
SSWM12-22	1.4	1400	12	0.71	0.028	44%	22
SSWM12-20	1.2	1200	12	0.9	0.035	32%	20

Product code	Approx. aperture mm	Approx. aperture micron	Mesh Per Inch	Wire Dia mm	Wire Dia inch	Approx. open Area %	Approx. Wire Gauze
SSWM14-27	1.4	1414	14	0.4	0.015	61%	27
SSWM14-25	1.3	1300	14	0.5	0.02	52%	25
SSWM14-24	1.25	1250	14	0.56	0.022	48%	24
SSWM16-32	1.3075	1307.5	16	0.28	0.011	72%	32
SSWM16-28	1.2	1200	16	0.37	0.015	58%	28
SSWM16-26	1.1	1100	16	0.45	0.018	51%	26
SSWM16-24	1	1000	16	0.56	0.022	42%	24
SSWM16-22	0.9	900	16	0.71	0.028	31%	22
SSWM18-32	1.13	1130	18	0.28	0.011	63%	32
SSWM18-27	1.01	1010	18	0.4	0.015	51%	27
SSWM20-28	0.9	900	20	0.37	0.015	50%	28
SSWM20-26	0.81	810	20	0.45	0.018	41%	26
SSWM20-24	0.71	710	20	0.56	0.022	31%	24
SSWM24-30	0.745	745	24	0.31	0.0125	49%	30
SSWM24-26	0.6	600	24	0.45	0.018	32%	26
SSWM30-32	0.57	570	30	0.27	0.011	46%	32
SSWM30-30	0.53	530	30	0.31	0.0125	39%	30
SSWM40-34	0.415	415	40	0.22	0.009	40%	34
SSWM50-36.5	0.33	328	50	0.18	0.0071	41%	36.5
SSWM50-36	0.32	318	50	0.19	0.0075	39%	36.25
SSWM50-36	0.31	310	50	0.2	0.008	38%	36
SSWM60-37	0.26	260	60	0.16	0.0065	35%	37
SSWM70-38	0.21	210	70	0.15	0.0059	34%	38
SSWM80-39	0.19	190	80	0.12	0.005	34%	39
SSWM100-42	0.15	150	100	0.1	0.004	36%	42
SSWM120-44	0.13	130	120	0.08	0.0032	37%	44
SSWM140-45	0.11	110	140	0.071	0.0028	37%	45
SSWM150-45	0.1	100	150	0.063	0.0025	37%	45
SSWM180-47	0.09	90	180	0.05	0.002	42%	47
SSWM200-47	0.08	80	200	0.05	0.002	38%	47
SSWM250-48	0.063	63	250 TW&PL	0.04	0.0016	38%	48
SSWM300-49	0.056	56	300 PL	0.032	0.0013	40%	49
SSWM270-48	0.053	53	270 TW	0.04	0.0016	32%	48
SSWM325-49	0.045	45	325 TW	0.036	0.0015	31%	49
SSWM325-49	0.045	45	325 PL	0.032	0.0013	32%	49
SSWM350-49.5	0.04	40	350 TW	0.032	0.0013	31%	49.5
SSWM400-49	0.034	34	400 TW	0.03	0.0012	27%	49
SSWM500-50	0.025	25	500 TW	0.025	0.001	25%	50

Most of the Mesh is available in 1.22 mt width
Also, they are available in 1.53mt width
The material type also comes in stainless steel 304 and 316
Weaving pattern (PL) Plain weave, (I/C) Inter crimped, TW (Twill weave)
Note: If the product is going to use in a harsh environment or
open space then we suggest that the finished product is pickled, Passivated and /or electropolished, and must be cleaned every month.

Woven Wire Mesh – Bushfire Mesh

For Radiant Heat and Ember Protection

Overview

- Available in stainless steel grade 304 and 316.
- Cut pieces and rolls available.
- Standard rolls width is 1220mm.
- Used to protect homes in bushfire prone areas.

A1 Metal Mesh Screens have partnered with one of the world's largest manufacturers of Flyscreen & we currently sell **thousands** of rolls in Australia every year. We hold stock of a wide variety, high-quality Flyscreen. If it is not in stock, we can normally ship within 24 hours (subject to supplier availability).

Our promise - WE WILL NOT BE BEATEN ON PRICE!

Check you comply - If you live in a bushfire prone area, standard fibreglass flyscreen is not suitable. If you are at a high risk or extreme risk area, you will need to purchase a metal flyscreen. The following BAL ratings from the Australian Standard 3959:2009 will give an indication, but you should also contact your local council for more information.

BAL Low - Very Low Risk: Has no special requirements for screening windows in this area - all mesh products can be used

BAL 12.5 - Low Risk: Has an option for screening windows and doors (other than sliding) using steel, bronze or aluminium mesh with an aperture maximum of 2mm and fitting gaps no greater than 3mm in diameter. Sliding doors are not required to be screened but if they are they should comply with other screens in the house

BAL 19 - Moderate Risk: Has an option for screening windows and doors using steel, bronze or aluminium mesh with an aperture maximum of 2mm and fitting gaps not greater than 3mm in diameter

BAL 29 - High Risk: Has an option for screening windows and doors using steel, bronze or aluminium mesh with an aperture maximum of 2mm and fitting gaps not greater than 3mm in diameter

BAL 40 - Very High Risk: Has an option for screening windows and doors using steel or bronze mesh with an aperture maximum of 2mm and fitting gaps of no greater than 3mm in diameter

BAL FZ - Extreme Risk: Has an option for screening windows and doors using steel or bronze mesh with an aperture maximum of 2mm and fitting gaps of no greater than 3mm in diameter

All our fly-screen mesh is manufactured to the Australian Standard 3959:2009 - please refer to the individual products for each specification

Although this standard specifies individual BAL fire ratings the manufacturer is not required to provide a certificate for its products, as compliance to the BAL rating system is subject to installation conditions, which is out of the manufacturer's control - please refer to your local council for more information

Stainless Steel Woven Bushfire Mesh for Radiant Heat &

Stainless Steel Woven Ember Protection Mesh

A corrosion resistant steel mesh must be used with an aperture of less than 2mm to protect against ember attack in accordance with the Australian Standard AS 3959-2009 'construction of building in bushfire prone areas.

Part number	Material grade	Aperture mm	Wire dia. mm	Mesh imp	SWG	Open area %	Roll width mm
SSWM10-21	304	1.74	0.8	10	21	47	1220
SSWM11-21	304	1.51	0.8	11	21	43	1220
SSWM12-27	304	1.72	0.4	12	27	65	1220
SSWM14-28	304	1.46	0.35	14	28	65	1220
SSWM10-22	304	1.83	0.71	10	22	52	1530
SSWM10-21	304	1.74	0.8	10	21	47	1530
SSWM10-20	304	1.64	0.9	10	20	42	1530
SSWM12-26	304	1.67	0.45	12	26	62	1530
SSWM12-24	304	1.56	0.56	12	24	54	1530
SSWM12-22	304	1.41	0.71	12	22	44	1530
SSWM14-27	304	1.41	0.4	14	27	60	1530

You can contact the Country Fire Authority, Rural Fire Services in your state or city to protect your property and family from bushfire, for further information on how to plan and prepare your home in the event of a bushfire:

http://www.cfa.vic.gov.au/plan-prepare/
http://www.rfs.nsw.gov.au/plan-and-prepare
To download the Fire Ready Kit on the link below:

http://www.cfa.vic.gov.au/plan-prepare/fire-ready-kit/
https://www.sa.gov.au/topics/planning-and-property/land-and-property-development/building-rules-regulations-and-information/bushfire
https://www.dfes.wa.gov.au/safetyinformation/fire/bushfire/Pages/default.aspx
https://ruralfire.qld.gov.au/BushFire_Safety/Pages/default.aspx

Woven Wire Mesh – Bolting Cloth

Stainless Steel Bolting Cloth for High Capacity Sifting and Screening Applications

Overview

- Commonly used for high capacity sifting and screening applications where increased throughput is important.
- The increased open area (compared to common market grade woven wire mesh) is achieved by using thinner wires.
- Has reduced service life due to these thin wires.
- Material width is typically 1530mm wide.
- Material quality 316 grade stainless steel.
- Food grade quality available.

Product Range Overview

Part number	Material grade	Approx. aperture (mm or microns)	All wire dia. (mm)	Imperial mesh	SWG	Open area %	Roll width mm
	SS316	1.6 mm	0.22	14		77	1530
	SS316	1.4 mm	0.22	16		75	1530
	SS316	1.18 mm	0.22	18		71	1530
	SS316	1.04 mm	0.22	20		68	1530
	SS316	950 microns	0.22	22		66	1530
	SS316	850 microns	0.22	24		63	1530
	SS316	780 microns	0.20	26		63	1530
	SS316	710 microns	0.20	28		61	1530
	SS316	680 microns	0.165	30		65	1530
	SS316	630 microns	0.165	32		63	1530
	SS316	580 microns	0.165	34		61	1530
	SS316	540 microns	0.165	36		59	1530
	SS316	500 microns	0.165	38		57	1530
	SS316	475 microns	0.16	40		56	1530
	SS316	460 microns	0.14	42		59	1530
	SS316	440 microns	0.14	44		57	1530
	SS316	410 microns	0.14	46		56	1530
	SS316	390 microns	0.14	48		54	1530
	SS316	375 microns	0.14	50		53	1530
	SS316	350 microns	0.14	52		51	1530
	SS316	320 microns	0.114	58		55	1530
	SS316	310 microns	0.114	60		53	1530
	SS316	300 microns	0.114	62		52	1530
	SS316	280 microns	0.10	66		54	1530
	SS316	260 microns	0.09	72		54	1530
	SS316	250 microns	0.09	74		53	1530
	SS316	240 microns	0.09	76		52	1530
	SS316	220 microns	0.09	80		50	1530
	SS316	210 microns	0.09	84		50	1530
	SS316	200 microns	0.09	88		48	1530
Part number	Material grade	Approx. aperture (mm or microns)	All wire dia. (mm)	Imperial mesh	SWG	Open area %	Roll width mm
	SS316	180 microns	0.09	94		45	1530
	SS316	150 microns	0.065	120		47	1530
	SS316	130 microns	0.06	135		47	1530
	SS316	105 microns	0.05	165		47	1530
	SS316	90 microns	0.04	200		46	1530
	SS316	75 microns	0.04	220		43	1530
	SS316	74.4 microns	0.036	230		45	1530

Woven Wire Mesh – FDA Compliant

Stainless Steel Woven Wire Mesh for Food Contact Applications

Overview

- Stainless steel grade 304.
- The customer has to make the mesh free of grease, oils and dirt to comply with FDA approved for food industries.
- Mesh is ideal for all applications where it will come in contact with food.
- Rolls up to 30m in length available.
- Standard roll width is 1530mm.

Woven Wire Mesh – Hollander Weave

Stainless Steel Hollander Weave for Liquid Filtration Applications

Overview

- Grade 304, grade 316 Stainless steel is available.
- Rolls available.
- Standard roll width is 1220mm.
- Used in fine filtration of liquid products.
- Even openings.
- Good flow rates.
- Slightly textured surface.
- Useful for high flow rates and low-pressure loss are used where mechanical loading is increased.

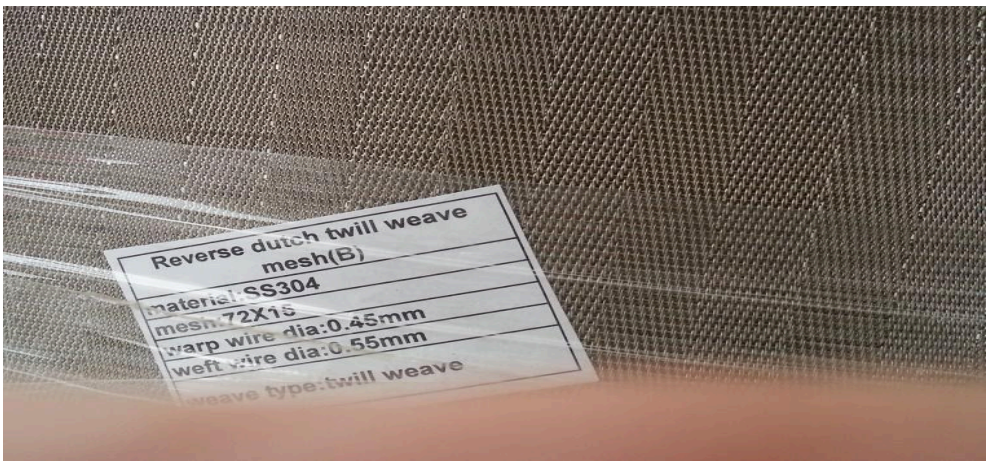
Product Range Overview

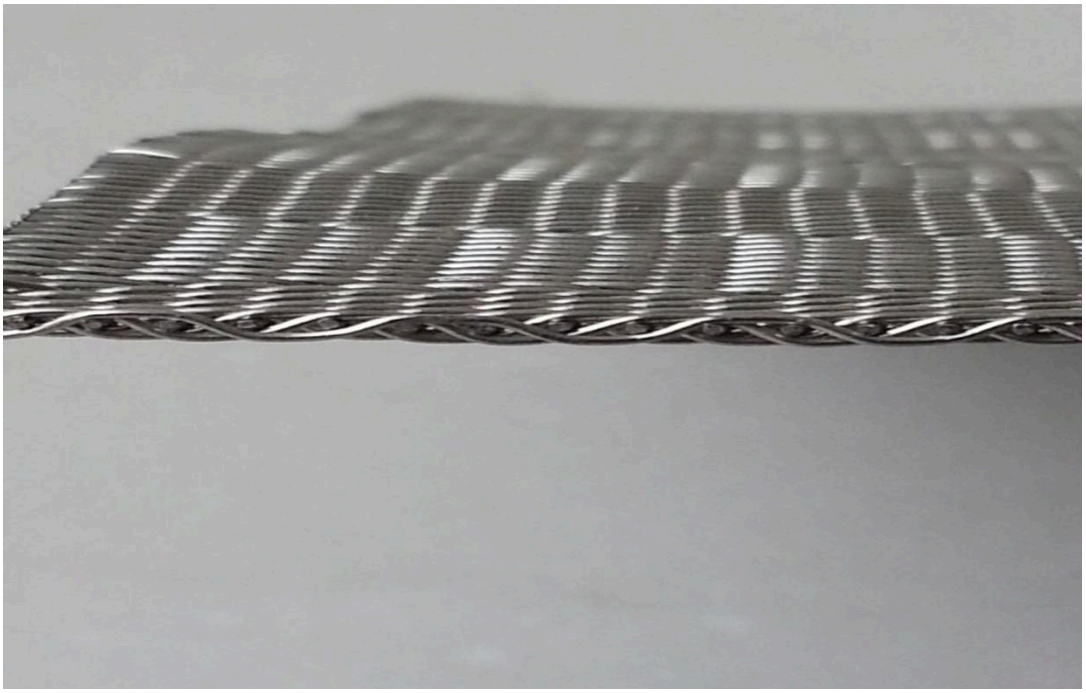
Material grade	Normal size (um)	Absolute filter rating	Imperial warp/weft mesh (inch)	Equivalent warp/weft wire dia. (mm)	Effective area (%)	Cloth thickness (mm)	Weight (kg per m)
SS304or316	210		12/64	0.56/0.40	16	1.36	3.89
SS304or316	180		14/88	0.50/0.30	23	1.10	2.85
SS304or316	119		20/250	0.25/0.20	17.6	0.65	3.01
SS304or316	105		24/110	0.355/0.25	13	0.85	2.40
SS304or316	80		30/150	0.25/0.18	13.6	0.60	1.74
SS304or316	60		40/200	0.20/0.14	15	0.46	1.40
SS304or316	50		50/250	0.14/0.10	16	0.36	0.95
SS304or316	35		80/400	0.125/0.06	16.6	0.25	0.77
SS304or316	30		80/700	0.11/0.08	9.8	0.27	1.39
SS304or316	15		165/800	0.07/0.05	13.5	0.17	0.74
SS304or316	13		165/1400	0.063/0.04	8.8	0.143	0.73
SS304or316	10		200/1400	0.050/0.032	3.8	0.114	0.63

Woven Wire Mesh – Reverse Dutch Weave

Product overview:

- Special weave wire cloth.
- Used in the plastic industry, the chemical industry, etc.
- More warp wires than weft wires in a certain unit area, as compared to the normal Dutch weave.
- Better filtration rate than normal Dutch weave.





Woven Wire Mesh – Knitted Wire Mesh

Product overview:

- The wire is made of stainless steel, red copper, galvanised, or polyamide fibre.
- Made through link weaving.
- Used in the petroleum industry, chemistry industry, etc.
- Used to eliminate foam and entertainment mixed in gases and liquids.

Demister:

A demister is manufactured and designed out of plastic wire mesh or knitted stainless steel wire mesh. It is designed to be efficient and economical for a range of applications. Ideally used in evaporators, stripping columns, steam drums, absorption and drying towers, distillation towers, separators, knockout drums, and scrubbers.

Woven Wire Mesh – Rectangular/Oblong Mesh

Overview

- 304 and 316-grade stainless steel and
- Galvanised mild steel available.
- Ideal for fencing, cladding, ceilings, balustrades,
- Security and decorative applications.
- Aperture sizes vary.
- Standard wire diameters available.
- Possible to combine wire diameters.
- Available in rolls or cut to size.

Brass Woven Wire Mesh –

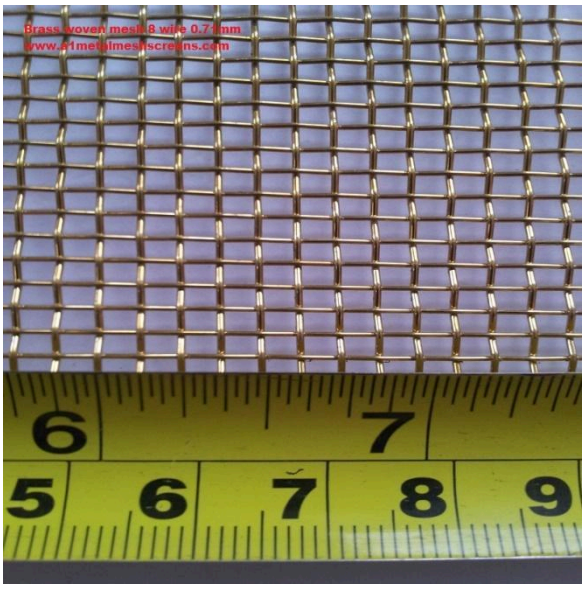
Overview

- For decorative applications.
- Available in rolls or cut to size.
- Standard roll widths 1220mm.
- Other meshes available when requested.

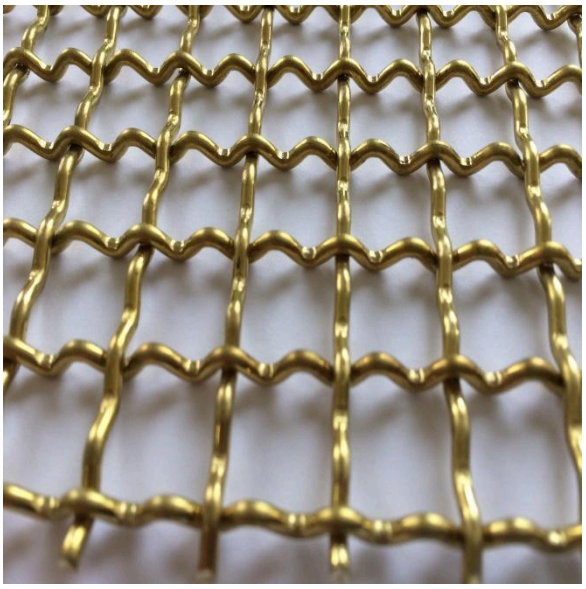
Product Range Overview

Part number	Material grade	Aperture mm	Wire dia. mm	Mesh imp	Wire gauze	Open area %	Roll width mm
WB214	Brass	10.7	2mm	2 I/C	14	70%	1220
WB416	Brass	4.75	1.6mm	4	16	56%	1220
WB822	Brass	2.45	0.7mm	8	22	61%	1220
WB1632	Brass	1.31	0.28mm	16	32	68%	1000

Note that over time any brass product will change its appearance over time due to exposure to air (oxidation). Differences in finish can also be observed from roll to roll. **We also supply any other specification mesh in brass even if it is not listed in our catalogue.**



Above picture Mesh - 8.



Above picture Mesh -2

Welded Wire Mesh – Rolls

Overview

- Available in grade 304 and 316 stainless steel.
- Available cut to size.

Product Range Overview

Part number	Material grade	Pitch mm	Wire dia. mm	Roll width mm	Weight kg per m
WLD6.35-08	SS304 or 316	6.35	0.8 mm	1220	1.5
WLD9.5-1	SS304 or 316	9.5	1 mm	1220	1.5333
WLD9.5-0.8	SS304 or 316	9.5	0.8 mm	1220	1
WLD11-0.8	SS304 or 316	11	0.8 mm	1220	0.7667
WLD12.7-1.2	SS304 or 316	12.7	1.2 mm	1220	1.7333
WLD12.7-1.6	SS304 or 316	12.7	1.6 mm	1220	3.1
WLD12.7/25.4-1.2	SS304 or 316	12.7 X 25.4	1.2 mm	1220	1.3
WLD19-1.6	SS304 or 316	19	1.6 mm	1220	2.0333
WLD19-2	SS304 or 316	19	2 mm	1220	3.2
WLD25.4-1	SS304 or 316	25.4	1 mm	1220	0.6
WLD25.4-1.6	SS304 or 316	25.4	1.6 mm	1220	1.5333
WLD25.4-2	SS304 or 316	25.4	2 mm	1220	2.4
WLD38-2	SS304 or 316	38	2 mm	1220	1.6333
WLD50-2	SS304 or 316	50.8	2 mm	1220	1.2

Welded Wire Mesh – Sheets

Overview

- Available in grade 304 and 316 stainless steel and galvanised steel.
- Available cut to size.

Product Range Overview

Part number	Material grade	Pitch mm	Wire dia. mm	Sheet size mm	Weight kg panel
WLD25-2.5	SS304 or 316	25x25	2.5 mm	1200X2400	9
WLD25-3	SS304 or 316	25x25	3 mm	1200X2400	13
WLD25/50-3	SS304 or 316	25x50	3 mm	1200X2400	9.5
WLD40-3	SS304 or 316	40X40	3 mm	1200X2400	8
WLD50-3	SS304 or 316	50X50	3 mm	1200X2400	6.5
WLD50-4	SS304 or 316	50X50	4 mm	1200X2400	11.5
WLD50-5	SS304 or 316	50X50	5 mm	1200X2400	18
WLD50/75-5	SS304 or 316	50X75	5 mm	1200X2400	15
WLD100-3	SS304 or 316	100x100	3 mm	1200X2400	3
WLD100-5	SS304 or 316	100x100	5 mm	1200X2400	9
WLD100-6	SS304 or 316	100x100	6 mm	1200X2400	13
WLD100-8	SS304 or 316	100x100	8 mm	1200X2400	23
WLD150-6	SS304 or 316	150x150	6 mm	1200X2400	8.5
WLD200-6	SS304 or 316	200x200	6 mm	1200X2400	6.5

Contact Details

A1 Metal Mesh Screens

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