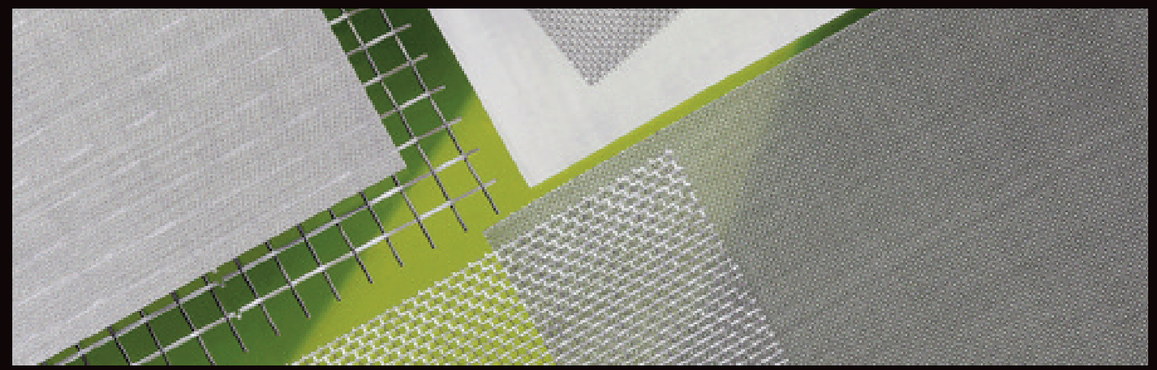
AUGHEY SCREENS

SETTING NEW STANDARDS IN WIRE CLOTH AND SCREENING MEDIA

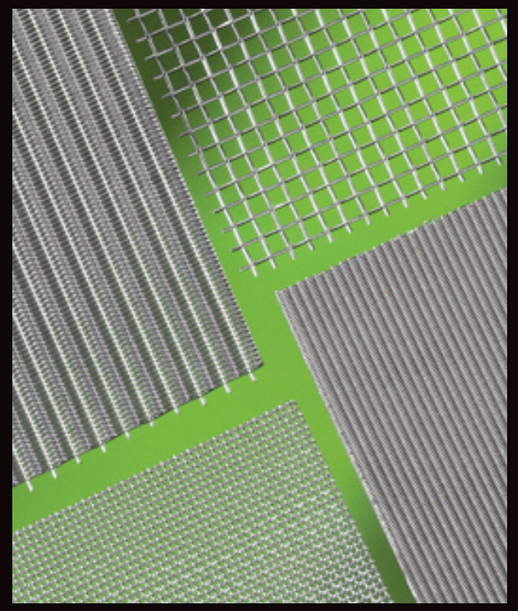
WOVEN WIRE CLOTH

Aughey Screens brings you the resources and expertise of more than 30 years of specialist knowledge and understanding of wire mesh and screening media that's unique and unrivalled.

Wherever you look you will find samples of Aughey products in action, helping people in industries throughout the world. For instance, we manufacture screening for material grading in quarries, mines and recycling plants. We help architects achieve stunning new effects with a variety of Mesh products in different materials. And for a huge spread of other industries we manufacture and supply products of exceptional diversity – from greenhouse staging for nurseries to steel mesh and bar for concrete reinforcement. Whatever your requirement, we would be pleased to talk to you about how we can help.



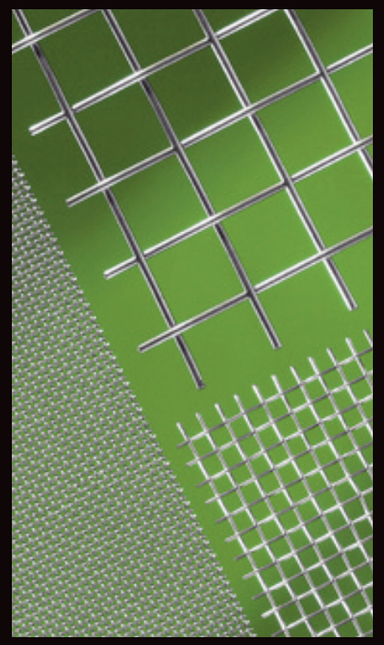
Our raw material is sourced from around the world, thus we can constantly ensure the quality of our material meets our high standard while providing highly competitive products.



Woven Wirecloth has a seemingly infinite range of applications. In the domestic environment it is found in tea strainers, flour sieves, coffee filters, fireguards and fly screens.

It is incorporated into many domestic applications, in filters for motor cars, and is used in the manufacturing processes for floor coverings, chipboard, hardboard and other building materials. In the industrial environment it has countless applications. As a precision woven product the ability to maintain accuracy of aperture size offers enormous scope for the use of Wirecloth as a filtration and screening medium for a variety of particle/fluid/gas separation cleaning and sizing applications. Wirecloth has wide ranging characteristics, and dependant on the configuration of wire thickness in relation to aperture size, can vary in texture from being as fine, soft and flexible as silk to being as rigid and durable as steel plate. Many of the properties of wirecloth are not available using alternative metal media (such as expanded and perforated metals) or synthetic meshes.

WOVEN WIRE CLOTH



Popular Specifications

Woven Wirecloth has traditionally been designated by a mesh number (or mesh count) representing the number of wires per linear inch. Although current national and international standards have deleted mesh counts in favour of designation by aperture size and wire diameter alone, the accompanying chart retains mesh count and wire diameter as a means of measurement to facilitate easy identification of mesh specifications.

Other Standard Specifications

In addition to the listed specifications all the specifications contained in BS 7372, and equivalent ISO 4783 can be supplied. However, the less popular of these meshes and non-standard specifications may be subject to minimum order quantities. We also maintain a comprehensive stock of Dutch weaves and as suppliers to the USA, we are able to supply market grade Wirecloth, mill grade screen cloth and industrial hardware cloth.

Non Standard Specifications

In theory there is an infinite number of combinations of aperture size, wire diameter and type of weave that can be produced. If you have a particular application that requires a critical combination of aperture and wire size to achieve a specific product, particle retention or free open area.

The most commonly used weaves are:

Plain Weaves

is used for the majority of Wirecloth woven by Aughey Screens. Each warp wire crosses alternately above and below every weft wire and vice versa. Warp and weft wires are normally of the same diameter. Used for the majority of commercial applications and for filtration where a high flow rate is required.

Twill Weave

Each weft wire passes alternately above and below every successive pair of warp wires and vice versa. This weave permits a heavier wire diameter to be used than would be possible in a plain weave with similar mesh count.

Plain Dutch Weave

Similar to Plain Dutch Weave, but effectively has a double layer of weft wires woven in twill pattern. This cloth is "light tight", has a very smooth surface, is strong, but has a restricted flow rate. Also referred to as Micromesh and is used for critical filtration applications often under high pressure.

Reverse Dutch Weave

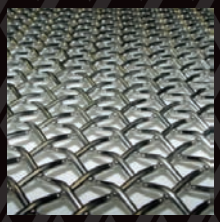
Normally woven as a plain weave, but in reverse manner to Plain Dutch Weave the weft wires are of greater diameter than the warp wires, and consequently the warp mesh count is greater than the weft mesh count. This cloth is extremely strong, is easily cleaned and has a high flow rate. Also known as Robusta.

Multiplex Weave

A Twill Weave cloth but with multiple wires making up warp and weft. A strong cloth with a relatively high number of openings per unit area, and considerable flexibility in certain constructions it can produce capillary action.

QUARRY/MINING RECYCLING

Specialists in screening media and screening solutions for the extractive industries



ARCHITECTURAL FACADES

Decretive and security mesh for architects and designers

WOVEN WIRE CLOTH

Woven Wirecloth and filters for industry with openings as small as 50µm

AUGHEY SCREENS

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