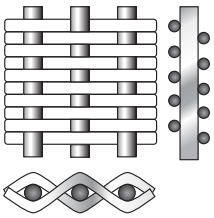
MARCO SPECIALTY STEEL

Marco Specialty Steel, Inc.
9140 Tavenor Lane
Houston, Texas 77075

Phone: 713-649-5310
800-200-3047
Fax: 713-649-5305
www.marcospecialtysteel.com

Filter Cloth, Dutch Weave
Particle Retention and Flow Rate Data

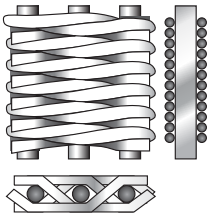


Plain Dutch Weave: consists of smaller wires applied in the shute direction that are woven with a larger warp wire. This results in a coarse, compact, firm mesh of superior strength. The openings slant through the cloth in a diagonal direction and are so small that they are invisible to the naked eye.

This extremely tight mesh is ideally suited for filtration applications, as well as the separation of slurry and liquid materials.

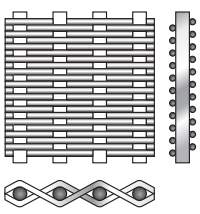
Mesh Count	Microns	Inches	Inches	lbs./sq. ft.	Oil GPM	Fuel GPM	Air SCFM
	Absolute Particle Retention		Thickness	Weight	Flow Rate Per Square Inch		
12 x 64	290	0.0116	0.048	0.76	3.7	8.3	45
14 x 88	240	0.0096	0.037	0.69	3.6	8.3	44
24 x 110	125	0.0054	0.03	0.52	3.5	7.9	43
40 x 200	75	0.0033	0.016	0.27	2.5	7.2	35
50 x 250	63	0.0025	0.012	0.22	1.9	6.2	33

Twilled Dutch Weave: offers a significant upgrade in strength over plain Dutch weave wire cloth. Twill Dutch actually combines the Dutch and twill weaving process to produce an extremely fine mesh filtering cloth that is created by passing shute wires over and under two warp wires. This process can pack a greater volume of wires into a given area, resulting in finer mesh counts and lower flow than standard Dutch weaves.



Twilled Dutch weave is capable of filtering materials as fine as two microns in diameter, making it well-suited for various liquid and gas applications.

Mesh Count	Microns	Inches	Inches	lbs./sq. ft.	Oil GPM	Fuel GPM	Air SCFM
	Absolute Particle Retention		Thickness	Weight	Flow Rate Per Square Inch		
20 x 250	120	0.0029	0.028	0.61	1.05	3.1	17
30 x 250	114	0.0027	0.028	0.64	0.9	3	16
80 x 700	35 - 38	0.0013	0.011	0.25	0.31	2.4	14
165 x 1400	16 - 18	0.0007	0.006	0.16	0.12	1.89	11
200 x 1400	12 - 14	0.0004	0.006	0.16	0.1	1.66	9.2
325 x 2300	8 - 9	0.0002	0.003	0.1	0.06	1.12	7.8



Reverse Plain Dutch Weave: features a larger number of wires in the warp and a smaller number in the shute, which is the opposite of a plain dutch weave. The shute wires are also heavier and feature an extremely tight weaving process, while the warp wires have a smaller diameter and come in contact with one another.

Reverse plain Dutch weave is ideally suited for solid filtration applications where maintaining mechanical stability is of primary importance, such as those involving heavy-duty cleaning processes, centrifugal filter cake removal or backwashing.