



Graver Technologies

Filtration | Separation | Purification

GSTACK Series Depth Filter Modules

Lenticular Depth Filter Modules

GStack Series depth filter modules are designed in a lenticular format for fluid clarification applications. Consisting of either cellulose with diatomaceous earth or cellulose with perlite, a formulation is available to achieve excellent particle and haze removal. Grades are also available with water absorbing capability or that meet pharmaceutical requirements.

GSTACK Series Features and Benefits

- Proven performance cellulose based filter sheet media
- Choice of DE or perlite filter aids
- Nominal retention ratings from 0.25 to 15 microns
- High efficiency due to positive zeta potential
- Exceptional mechanical strength
- Choice of flat gasket seal or double o-ring seal
- Choice of economical stainless steel bands or rigid molded polypropylene core
- Special water absorbing component is available in the 10 and 15 micron grades
- Steam sterilizable
- Media grade stamped on sheets for easy identification
- FDA listed materials of construction
- P grades meet USP Class VI criteria and are safe for use in pharmaceutical applications

Filter Specifications

Media/Microns (nominal):

Cellulose/DE	0.25, 0.3, 0.5, 0.8, 1.0, 2.5, 5, 10
Cellulose/Perlite	0.5, 1.0, 2.5, 5, 10, 15
Water absorbing	10, 15

Hardware:

End caps and cell edge seals	- Polypropylene
Center Support	-Stainless steel bands or polypropylene core
Gaskets/O-rings:	Buna N, Silicone, EPDM, Viton, Teflon
Filtration Area:	12"/16 cell - 18.5 sq ft (1.7 sq m)
	16"/16 cell - 40 sq ft (3.7 sq m)
	12"/14 cell water absorbing grade-
	16.2 sq ft (1.5 sq m)

Dimensions

Nominal Diameter:	12" or 16" (287mm, 405mm)
# of Cells per stack	16 (14 for water absorbing grade)
Height:	10 7/8" (276mm)



Operating Conditions

Maximum operating temperature:	176°F (80°C)
Maximum differential pressure:	35psid (2.4 Bar)
Steam in place:	266°F (130°C) for 30 minutes at 25psid maximum (1.7 bar)
Hot water sanitization:	176°F (80°C) for 30 minutes at up to 14psid (1 bar)

Applications

- Wine/Beer
- Sweeteners
- Silicone oils
- Cosmetics
- Adhesives
- Pharmaceuticals
- Flavors/Fragrances
- Edible oils
- Distilled spirits

GSTACK Nomenclature

GS	2	16	D2.5			P	C	B
Product Series	Diameter	Cells	Media			Grade	Core/End Style	Gasket
GS = GSTACK	2 = 12" 6 = 16"	16 14 (W grade)	Cellulose /DE D0.25 D0.3 D0.5 D0.8 D1 D2.5 D5 D10	Cellulose /Perlite L0.3 L0.5 L1 L2.5 L5 L10 L15	Water Absorbing* W10 W15	Blank = Industrial P = Pharmaceutical	S = SS Bands C = PP Core/ Flat Gasket O = PP Core/ O-ring	E EPDM S Silicone B Buna N V Viton T Teflon

Example: GS216D2.5PCB is a 12" stack with 16 cells, D2.5 media, Pharma grade, with PP core and Buna gaskets.

* Water grade is only available in 12" with SS bands.

GSTACK Flow Rate

Media Grade			Nominal Retention Rating (micron)	Practical Water Flow Rate (GPM)		
Cellulose/DE	Cellulose/Perlite	Water Absorbing		12", 16 cell	16", 16 cell	Water Absorbing 12"
D0.25			0.25-0.5	1-2	2-4	
D0.3	L0.3		0.3-0.5	2-3	4-6	
D0.5	L0.5		0.5-0.8	3-4	6-8	
D0.8			0.8-2	4-5	8-10	
D1	L1		1.0-3.0	6-7	12-14	
D2.5	L2.5		2.5-4	6-10	13-21	
D5	L5		5-12	20-26	43-56	
D10	L10	W10	10-25	25-35	50-60	18
	L15	W15	15-40	40-50	60-70	18

*Flow rate applies to water at 70F at 1psid clean differential. For different fluid characteristics, testing is highly recommended for proper sizing.

For more information

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