Liquatec®

Filter elements product catalog

Best solution in filtration
Edition 2013 (design by vanung university commercial design)







FOOD & BEVERAGES

- Sterile filters for removing organic impurities
- Quick couplings and fittings for food and beverage dispensing equipment in restaurants etc.
- Sterile vent filters for storage tanks and fermenters



PHARMACEUTICAL

- Protective filters for sensors and analysis equipment
- · Fine filters for preparing dialysis water
- · Quick couplings and fittings for medical equipment



ELECTRONICS INDUSTRY

- Ultrapure water filters for rinsing baths for electronic components
- · Membrane filters for cleaning photovoltaic cells
- · Fine filters for UV coatings for CDs and DVDs



WATER & PURIFICATION

- Prefilters for reverse osmosis systems and ion exchangers
- Centrifugal separators for degreasing baths in part-cleaningsystems
- · Activated carbon filters for reducing odor and taste substances



PAINTS & COATINGS

- · Police filters for quality control before filling drums
- · Self-cleaning and cleanable filters for delivering raw materials
- Depth filters for removing colloidal impurities from coatings



CHEMICAL INDUSTRY

- · Process filters for manufacturing chemical products
- Final filters for body lotions, hairsprays and nail polish
- · Safety filters for retaining catalysts

Liquatec[®]

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Depth Series Filter

Depth Series Filter

The depth filters relies on a graded-density provides excellent retention and loading capacity can be used to remove impurities from fluids.

A wide range of filter elements made of different materials and offer options to match your application filtration objectives.

Super Gard: Nominal grade Melt-Blown PP micro fiber filter cartridges

Absolute Gard: Absolute grade Melt-Blown PP micro fiber filter cartridges

Thermal Bonding: PP/PE bi-component fiber filter cartridges

Wound Gard: Wound cartridges made of polypropylene, cotton or glass fiber

End Cap & Core number

Nylon Gard: Melt-Blown nylon micro fiber cartridges

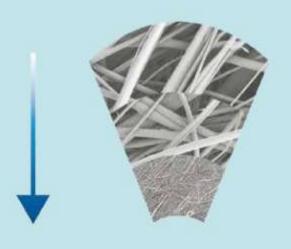
Diameter

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	E Owen	Overall(DO)	254	508	762	1016	67	26
€ c1	Sheed.	Overall(DO)	254	508	762	1016	63	33
	mil .	SS	236	490	744	998		
(Q)- c1		SE	237	491	745	999	63	33
6	Si Si Overal	Overall	254	508	762	1016		
		SS	193	447	701	955		
((Q) -c1		SE	237	491	745	999	63	33
0/0	Description of the Control of the Co	Overall	254	508	762	1016		
Diameter	End Cap & Core number	Part of Measurement	10"	20"	30"	40"	C1	C2
	E Orecz	Overall(DO)	254	508	762	1016	67	26
CI Q	Overal .	Overall(DO)	254	508	762	1016	63	33
<u></u>	***************************************	SS	236	490	744	998		
(Q)-c1	<u> </u>	SE	237	491	745	999	63	33
000	THE CONTROL	Overall	254	508	762	1016		
		SS	193	447	701	955		
(C) C1		SE	237	491	745	999	63	33
~ 16	N Overa	Overall	254	508	762	1016		

Part of Measurement | 10" | 20" | 30" | 40" | C1 | C2

Super gard







Description

Liquatec develops the Melt-Blown technology to meet the market requirements for a pure polypropylene depth filter with exceptional dirty-holding capability and performance. The structure of surface is an exceptional value for industry application where long life, low pressure drop and high efficiency required.

Specification

Micron Rating (Nominal Rating):

0.5,1, 3, 5, 10, 25, 50, 75, 100 µm

Material of Construction:

100% Polypropylene Melt-Blown Micro-Denier fiber

Length: 9.87inches, 10inches, 20inches, 30inches,

40inches, 50inches

Outer Diameter:63mm(2.48inches),

69mm(2.72inches), 83mm(3.27inches)

Inner Diameter: 28(1.1inches), 38mm(1.50inches)

Operation Conditions

Maximum operation pressure drop:

1.2 kg/cm²(17 psi) at 80°C(176°F)

2.1 kg/cm²(30 psi) at 60°C(140°F)

4.2 kg/cm2(59 psi) at 20°C(68°F)

Recommended replaceable pressure drop:

2.1 kg/cm²(30psi)

Maximum operation temperature: 80°C(176°F)

Benefits and Features

Nominal ratings from 0.5 to 100µm

Continuously gradient pore structure increase capacity of dust

Surface fiber fortified to prevent fiber releasing 100% PP for compatibility for a wide range of process fluid

Formed by thermal bond without use any binder and adhesive

High strength and pressure resistance Certificated by FDA CFR Title 21

Food & Beverage

Electroplating, etching and image development processes in PCB industry

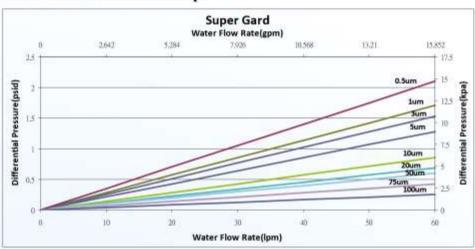
Filtration of electroplating fluid in conventional electroplating industry

Pre-filter of DI & RO water filtration system for industry

Filtration of medium & low viscosity fluids of chemical

Performance

Flow Rate VS Pressure Drop

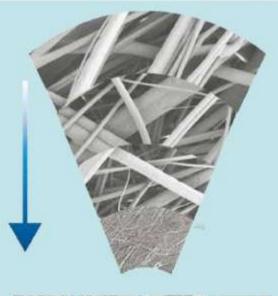


SG	С	В	D10	0254	E	DO	Р
Product Name	OD(mm)	ID(mm)	Rating(um)	Length(mm)	O-ring	Code Number	Inner Core
Super Gard	B:61 C:63 D:69 N:83	B:28 C:38	B50 : 0.5 C10 : 1 C30 : 3 C50 : 5 D10 : 10 D20 : 20 D30 : 30 D40 : 40 D50 : 50 D75 : 75 E10 : 100	0251 0254 0508 0762 1016 1270	E: EPDM S: Silicone V: Viton T: PFA encapsulate viton X: non o-ring A: EVA(two-sided) B: EVA(one-sided)	DO: Double Open DB: Double Blue cap 2C: 222/Cap 2S: 222/Spear 6C: 226/Cap 6S: 226/Spear	P: With Inner Core N: No Inner Core

Liquatec[®]

Absolute gard







Description

Liquatec develops the Melt-Blown technology to meet the market requirements for a pure polypropylene depth filter with exceptional dirty-holding capability and performance. The structure of surface is an exceptional value for industry application where long life, low pressure drop and high efficiency required.

Specification

Micron Rating (Absolute Rating 99.9%):

1, 3, 5, 10, 25, 50, 75, 100 µm

Material of Construction:

100% Polypropylene Melt-Blown Micro-Denier fiber

Length: 9.87inches, 10inches, 20inches, 30inches,

40inches, 50inches

Outer Diameter: 63mm(2.48inches),

69mm(2.72inches), 83mm(3.27inches)

Inner Diameter: 28mm(1.1inches),

38mm(1.50inches)

Operation Conditions

Maximum operation pressure drop:

1.2 kg/cm²(17 psi) at 80°C(176°F)

2.1 kg/cm²(30 psi) at 60°C(140°F)

4.2 kg/cm²(59 psi) at 20°C(68°F)

Recommended replaceable pressure drop:

2.1 kg/cm2(30psi)

Maximum operation temperature: 80°C(176°F)

Benefits and Features

Absolute ratings from 1 to 100µm

Continuously gradient pore structure increase capacity of dust

Surface fiber fortified to prevent fiber releasing 100% PP for compatibility for a wide range of process fluid

Formed by thermal bond without use any binder and adhesive

High strength and pressure resistance Certificated by FDA CFR Title 21

Food & Beverage

Electroplating, etching and image development processes in PCB industry

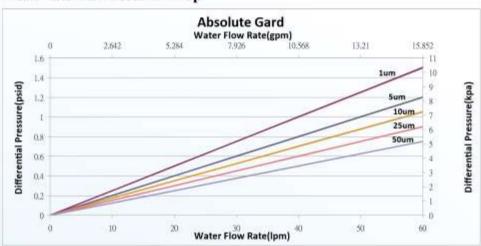
Filtration of electroplating fluid in conventional electroplating industry

Pre-filter of DI & RO water filtration system for industry

Filtration of medium & low viscosity fluids of chemical

Performance

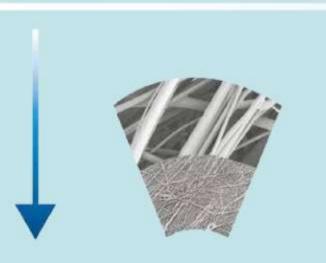
Flow Rate VS Pressure Drop



AG	С	В	D10	0254	E	DO	Р
Product Name	OD(mm)	ID(mm)	Rating(um)	Length(mm)	O-ring	Code Number	Inner Core
Absolute Gard	B: 61 C: 63 D: 69 N: 83	B:28 C:38	B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30 D40: 40 D50: 50 D75: 75 E10: 100	0251 0254 0508 0762 1016 1270	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton X : non o-ring A : EVA(two-sided) B : EVA(one-sided)	DO: Double Open DB: Double Blue cap 2C: 222/Cap 2S: 222/Spear 6C: 226/Cap 6S: 226/Spear	P: With Inner Core N: No Inner Core

Thermal bonding







Description

TB filter manufacturing utilizes the most advanced technology to produce a clean, rigid filter structure. The filter is constructed with the skin- core long bicomponent fibers, and the fibers are thermally bonded with high temperature. The high degree of fiber- to- fiber bonding provides a rigid structure that no need a core support and any possibility of media migration.

Specifications

Micron Rating: 0.5, 1, 3, 5, 10, 20, 30, 40, 50, 75,

100, 150 µm (Water)
Materials of Construction :
Filter Medium : PP/PE
Outer Diameter : 63~65mm

Outer Diameter : 63~65mm Inner Diameter : 30mm

Length: 250, 500, 750, 1000mm

Operation Conditions

Maximum forward differential pressure :

5.62kg/cm2 (80 psi) at 24°C(75°F)

Maximum operating temperature: 80°C(175°F)

Benefits and Features

Product provides consistent filtration from start to finish

The filter is constructed using filament won't release fiber caused liquid contamination.
The rigid structure suit for highly viscous liquid. The porous outer layer and dense inner layer structure ensures high service life.

Applications

Food & Beverage : Clarification

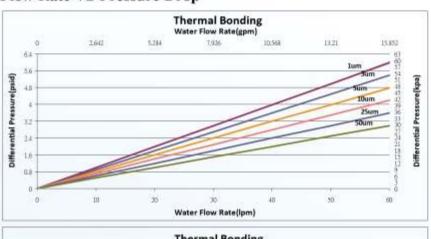
Coating : Clarification Coater : Gel filtration Ink : Clarification

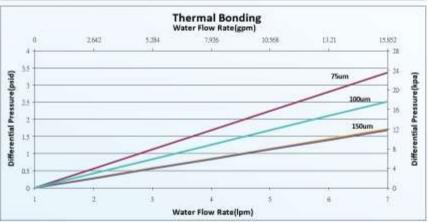
Chemical Solution: Clarification.

Watertreatment: Pre RO, Cooling water.

Performance

Flow Rate VS Pressure Drop

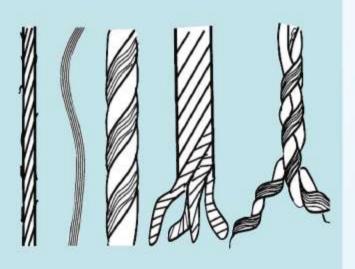




TB	С	В	D10	0254	E	DO	Р
Product Name	OD(mm)	ID(mm)	Rating(um)	Length(mm)	O-ring	Code Number	Inner Core
Thermal Bonding	B: 61 C: 63 D: 69 N: 83	B:28 C:38	B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D25: 25 D50: 50 D75: 75 E10: 100	0251 0254 0508 0762 1016 1270	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton X : non o-ring A : EVA(two-sided) B : EVA(one-sided)	DO: Double Open DB: Double Blue cap 2C: 222/Cap 2S: 222/Spear 6C: 226/Cap 6S: 226/Spear	P: With Inner Core N: No Inner Core

Wound gard





Description

Wound Gard filter cartridges provide good dirtholding capacity and diverse range of removal ratings thereby graded pore structure.

Honeycomb shaped voids, typically of conventional wound string filters are avoided, and there are no short fibers that can break away as loose bits.

Dirt holding capacity and filter life is said to be about double that of conventional wound filters and pressure drop is halved.

Specification

Micron Rating:1,3,5,10,30,40,50,75,100 um Materials of Construction:

Filter Medium: polypropylene, cotton and glassfiber Center Core: polypropylene, 304 stainless steel

and 316 stainless steel

Outer Diameter: 63mm(2.5"),110mm(4.5") Inner Diameter: 28mm(1.1"),30mm(1.2")

Operation Conditions

Maximum operating temperature:

Polypropylene with stainless steel cores :93°C(200°F)
Polypropylene with polypropylene cores :49°C(120°F)
Cottonwith stainless steel cores: 121°C(250°F)
Cottonwith stainless steel cores: 49°C (120°F)
Recommended replaceable pressure drop:

2.5kg/cm²(30psi)

Maximum operating forward pressure drop:

4.5kg/cm2(30psi)

Benefits and Features

Optional core covers available to assure fiber migration

Various cartridge sealing options

Graded pore structure for efficient removal of wide range of particel sizes

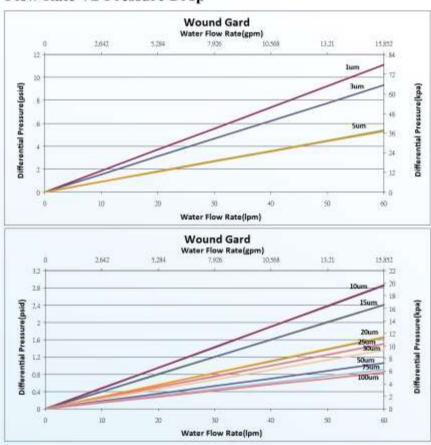
Board chemical compatibility for variety of applications

Cartridges fit all standard housings

Animal & Vegetables Oils Concentrated Alkalies Dilute Acids & Alkalies Organic Acids & solvents Petrolium Oils Potable Liquids Oxidizing Agents

Performance

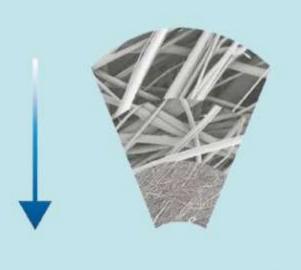
Flow Rate VS Pressure Drop



WG	С	В	D10	1	Р	Р
Product Name	OD(mm)	ID(mm)	Rating(um)	Length(inches)	Inner Core	Material
Wound Gard	B: 61 D: 63 E: 110	B:28 C:30	B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30 D40: 40 D50: 50 D75: 75 E10: 100	1:10" 2:20" 3:30" 4:40" A:9.87" B:19.5" C:29.5" D:39.5"	P : Polypropylene S : SS 304 T : SS316	P : PP C : Cotton G : Glass Fiber D : Sterilization Cotton Q : Sterilization PP

Nylon gard







Description

Nylon Gard depth filter cartridge relies on a graded-density provides excellent retention and loading capacity can be used to remove impurities from fluids. The filter is made of nylon micro fiber so the filter provides superior solvent and temperature resistance.

Specification

Micron Rating (Absolute Rating 99.9%): 2, 3, 5, 10, 25, 50, 75, 100 μm

Material of Construction:

100% Nylon Melt-Blown Micro-Denier fiber

Core & End cap Material: Nylon

Length: 9.87inches, 10inches, 20inches, 30inches,

40inches

Outer Diameter:

63mm(2.48inches),69mm(2.72inches)

Inner Diameter: 28mm(1.1inches)

Operation Conditions

Maximum operation pressure drop:

1.75kg/cm2(25 psi) at 93°C(200°F)

3.5kg/cm²(50 psi) at 71°C(160°F)

6.3 kg/cm²(90 psi) at 32°C(90°F)

Maximum operation temperature: 120°C

Benefits and Features

Absolute ratings from 2 to 100µm

Continuously gradient pore structure increase capacity of dust

Surface fiber fortified to prevent fiber releasing 100% nylon construction provides superior solvent and temperature resistance

Formed by thermal bond without use any binder and adhesive

Solvent

Fine Chemicals

Plating Solution

Process Water

Beverages

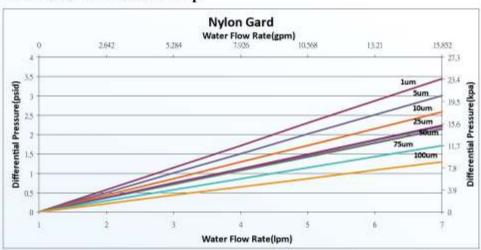
Ink Jets

Parts Cleaning

Dyes

Performance

Flow Rate VS Pressare Drop



NG	С	В	C10	0254	X	DO	Р
Product Name	OD(mm)	ID(mm)	Rating(um)	Length(mm)	O-ring	Code Number	Inner Core
Nylon Gard	B: 61 C: 63 D: 69 N: 83	B: 28 C: 38	B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30 D40: 40 D50: 50 D75: 75 E10: 100	0251 0254 0508 0762 1016 1270	E:EPDM S:Silicone V:Viton T:PFA encapsulate viton X:non o-ring A:EVA(two-sided) B:EVA(one-sided)	DO: Double Open 2C: 222/Cap 2S: 222/Spear 6C: 226/Cap 6S: 226/Spear DB: Double Blue cap	P: With Inner Core N: No Inner Core















Micro Series Pleated Filter Cartridge

Micro Series Pleated Filter Cartridge

The Micro Series filters are standard pleated filter cartridges.

The filters are available in three filter media types: polypropylene, polyethersulfone, and PTFE and removal rating from 0.05um to 70um. You can easily select the appropriate filter media and the rating for each fluid.

Micro Clean: Melt-Blown PP micro fiber filter cartridges

Micro Star: Pleated -Depth all polypropylene filters, suit for the removal of gels

Micro Panel: Polyethersulfone membrane filter cartridges

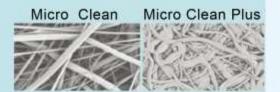
Micro Fluoro: PTFE membrane filter cartridges

Diameter	End Cap & Core number	Part of Measurement	10"	20"	30"	40"	C1	C2
(A)	DO: Double Open	Overall(TO)	250	490	730	970	60	20
	00000000000000000000000000000000000000	Overall(DO)	250	508	762	1016	- 69	29
	2C:222/Cap	SS	239	479	720	962		
(0)		SE	240	480	721	963	69	29
	SE Overall	Overall	257	497	738	980		
	25:222/Spear	SS	240	481	723	962		
(0)		SE	284	525	767	1006	69	29
	22 38 Se Overall	Overall	301	542	784	1023		
	6C:226/Cap	SS	242	479	698	937		
(C)		SE	244	481	700	939	69	29
	SS SE Overal	Overall	263	501	743	981		
	68:226/8pear	SS	242	481	724	964		
(C) C1		SE	286	525	768	1008	69	29
	SS	Overall	308	547	790	1030		
	2F:222(Autoclavable)/Cap	SS	242	479	698	937	-	
C1		SE	244	481	700	939		29
	33 3£ Overal	Overall	266	501	743	981		
<u> </u>	28 : 222(Autoclavable)/Spear	SS	242	481	724	964		
<u></u>	000000000000000000000000000000000000000	SE	286	525	768	1008	69	29
		Overall	308	547	790	1030		
	6F: 226/Cap	SS	240	480	699	938		
CI CI	00000000000000000000000000000000000000	SE	241	481	700	939	69	29
	SS SE Overal	Overall	270	510	752	990		
	6B: 226/Spear	SS	242	481	724	964		
C1 C2		SE	286	525	768	1008	69	29
	Overd	Overall	315	555	798	1036		

Micro clean







Description

Micro Clean Filter employ a Melt-Blown pp micro filber with 100% polypropylene support and porous outside/inside cage.

The Micro Clean Filter provides superior flow rates and dirty holding capacity due to the multiple layered construction.

Filter cartridges are using the welding techniques and manufactured in cleaning room enable the smallest contaminant extraction and higher durability.

Specification

Micron Rating:

0.2µm, 0.45µm, 1µm(plus: absolute)

2.5µm, 5µm, 10µm, 20µm, 40µm, 70µm(absolute)

Material of Construction:

Medium:Melt-Blown PP micro filber Core, cage and endcaps: Polypropylene Support and drainage: Polypropylene

Length:10~40 inches Outer Diameter :69mm Inner Diameter :28mm

Operation Conditions

Maximum operating temperature:

95°C/203°F

Maximum operating forward pressure drop:

2.81kg/cm2 (40 psi) at 82°C(180°F)

5.62kg/cm² (80 psi) at 24°C(75°F)

Benefits and Features

All polypropylene media and construction meet a broad range of performance requirements
High contaminant holding capacity

No extractable, ensure superior downstream cleanliness.

Superior retention of colloids and particles ensure low particle counts to protect your process Fits most available housings

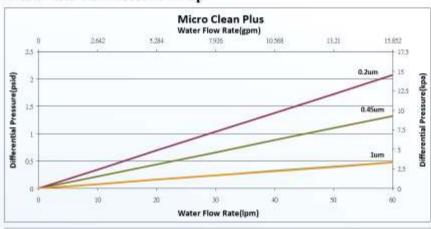
TFT-LCD: wet etching, stripping, developer, cleaning TN/STN: wet etching, stripping, developer, cleaning Color Filter: wet etching, stripping, developer, cleaning

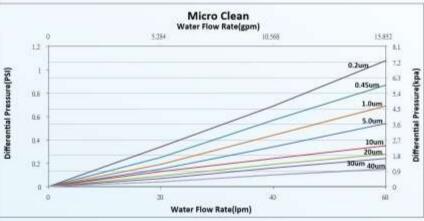
Beverage/Wine clarification

RO/DI Pre-filtration

Performance

Flow Rate VS Pressure Drop

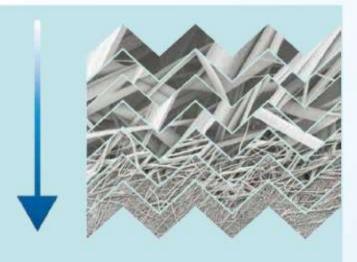


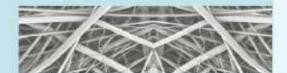


MC	S	D10	1	E	DO	A	-H
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Pre-flush	Special
Micro Clean	S: Standard P: Plus	B20: 0.2 B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30 D40: 40 D50: 50 D75: 75 E10: 100	A:5" 1:10" 2:20" 3:30" 4:40"	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton	DO: Double Open (full length) TO: Double Open 2C: 222/Cap 2S: 222/Spear 6C: 226/Cap 6S: 226/Spear 2F: 222(with tabs,Autoclavable)/Cap 2B: 222(with tabs,Autoclavable)/Spear 6F: 226(with tabs,Autoclavable)/Spear 6F: 226(with tabs,Autoclavable)/Spear 6B: 226(with tabs,Autoclavable)/Spear	A : pre -flush with DI water N : Non pre -flush	-H ; Alcohol soaked

Micro star







Description

Micro Star filter is an innovative synthesis of depth and pleated technologies. This product combines the high flow capacity and low pressure loss of pleated filters with the gel retention capability and long life of a depth filter. Micro Star is thermally bonded from 100% virgin polypropylene to ensure clean filtrates and excellent chemical and thermal compatibility in the most stringent of processing conditions.

Specification

Micron Rating: 0.45, 1,3, 5, 10, 20,30,40µm

Materials of Construction: Filter Medium: Polypropylene

Core, cage and endcaps: Polypropylene Support and drainage: Polypropylene Outer Diameter: 69mm(2.7inches) Inner Dimension: 28mm(1.1inches)

Length: 10inches, 20inches, 30inches, 40inches

Operation Conditions

Maximum operating forward pressure drop:

2.81kg/cm2 (7 psi) at 95°C(203°F)

5.62kg/cm2 (15 psi) at 30°C(86°F)

Maximum operating temperature: 95°C(203°F)

Biological Safety:

Autoclaved for 10cycles of 30 minutes at

126°C(259°F)

Benefits and Features

Optimized media structure improved dispersion classification

Thick media structure make excellent gel retention possible

No extractable, ensure superior downstream cleanliness

Superior retention of colloids and particles ensure low particle counts to protect your process Fits most available housings

Photoresist residue removers

TN/STN: wet etching, stripping, developer, cleaning Color Filter: wet etching, stripping, developer, cleaning

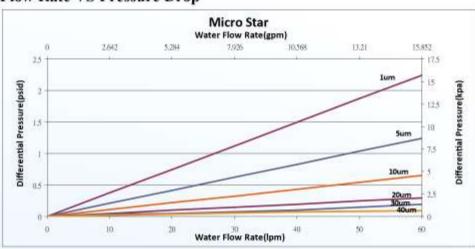
Beverage/Wine clarification

Solvent clarification

Ink clarification

Performance

Flow Rate VS Pressure Drop

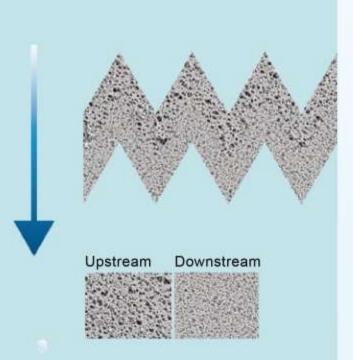


MS	S	D10	- 1	E	DO	A	-H
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Pre-flush	Special
Micro Star	S : Standard	C10:1 C30:3 C50:5 D10:10 D20:20 D30:30 D40:40	A:5" 1:10" 2:20" 3:30" 4:40"	E: EPDM S: Silicone V: Viton T: PFA encapsulate viton	DO: Double Open (full length) TO: Double Open 2C: 222/Cap 2S: 222/Spear 6C: 226/Cap 6S: 226/Spear 2F: 222(with tabs, Autoclavable)/Cap 2B: 222(with tabs, Autoclavable)/Cap 6F: 226(with tabs, Autoclavable)/Cap 6B: 226(with tabs, Autoclavable)/Cap 6B: 226(with tabs, Autoclavable)/Spear	A : pre -flush with DI water N : Non pre -flush	-H: Alcohol soaked

Liquatec[®]

Micro panel





Description

Micro Panel cartridges are constructed by Polyethersulfone membrane and polypropylene (support, core and end cap). Micro Panel's unique mirrored-anisotropic PES membrane has exceptionally high flow rates and long on-steam life, and provides consistent removal of both organic and inorganic particulates.

Specification

Micron Rating:

0.03, 0.1, 0.2, 0.45, 1.2µm(Water)

0.01, 0.02, 0.005µm (Air)

Materials of Construction:

Core, cage and endcaps: Polyethersulfone Support and drainage: Polypropylene Outer Diameter: 69mm(2.7inches) Inner Diameter: 28mm(1.1inches)

Operation Conditions

Maximum operating forward pressure drop:

2.81kg/cm2 (40 psi) at 82°C(180°F)

5.62kg/cm² (80 psi) at 24°C(75°F)

Maximum operating temperature: 95°C(203°F)

Biological Safety: Autoclaved for 10cycles of 30

minutes at 126°C(102°F)

Benefits and Features

The highly porous asymmetric membrane that ensure lower pressure drop and extended service time. Polypropylene supports provide clean and durable performance.

The filter element is manufacture in clean room.

Pre-flush 30 minutes with RO/DI water.

End caps and connectors are sealed by thermal

bond, free binder.

TFT-LCD: wet etching, strippi er, cleaning

TN/STN: wet etching, stripping, developer, cleaning Color Filter: wet etching, stripping, developer, cleaning

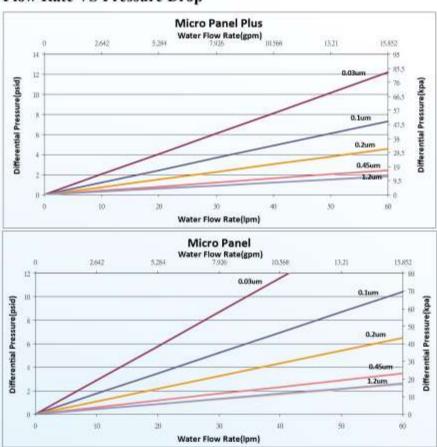
Beverage/Wine clarification

Chemical processing

Solvent filtration

Performance

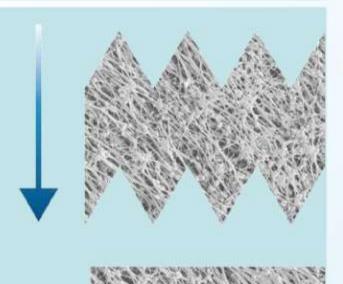
Flow Rate VS Pressure Drop



MP	S	D10	1	E	DO	Α	A	-H
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Pre-flush	Integrity Test	Special
Micro Panel	S: Standard P: Plus E: Extra	A30: 0.03 B10: 0.1 B20: 0.2 B45: 0.45 C12: 1.2	A:5" 1:10" 2:20" 3:30" 4:40"	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton	DO: Double Open (full length) TO: Double Open 2C: 222/Cap 2S: 222/Spear 6C: 226/Cap 6S: 226/Cap 6S: 226/Spear 2F: 222(with tabs,Autoclavable)/Cap 2B: 222(with tabs,Autoclavable)/Spear 6F: 226(with tabs,Autoclavable)/Cap 6B: 226(with tabs,Autoclavable)/Spear	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Test	-H : Alcohol soaked

Micro fluoro





Description

Micro Fluoro is a highly chemically-resistance cartridge owning to its use of PTFE membrane and polypropylene support.

Liquatec's unique PTFE membrane construction serves as a low-cost alternative to all fluoropolymer cartridge in less aggressive application and maintains broad chemical compatibility with low extractable levels and high particle retention rates.

Specification

Micron Rating: 0.05, 0.1, 0.2, 0.45, 1,3μm

Materials of Construction:

Filter Medium: hydrophobic PTFE membrane Core, cage and endcaps: Polypropylene Support and drainage: Polypropylene

Outer Dimension: 69mm Inner Dimension: 28mm

Operation Conditions

Maximum operating forward pressure drop:

2.8 kg/cm² (40 psi) at 82°C(108°F)

5.6 kg/cm² (80 psi) at 20°C(68°F)

Maximum operating temperature: 95°C(203°F)

Biological Safety:

Autoclaved for 10cycles of 30minutes at 126°C(259°F)

Benefits and Features

Highly flow rate reduces processing time Low extractable shortens start-up time

Excellent chemical compatibility for use in most application

Longer life reduces the cost of filtration

End cap and connector are sealed by thermal

bond, free binder

Manufactured in clean room, highly clean cartridge

Filtration of strong acid, base solution, solvent and DI-water under 80°C which are used in wet etching, solvents stripping, and cleaning manufacturing process of LCD factory

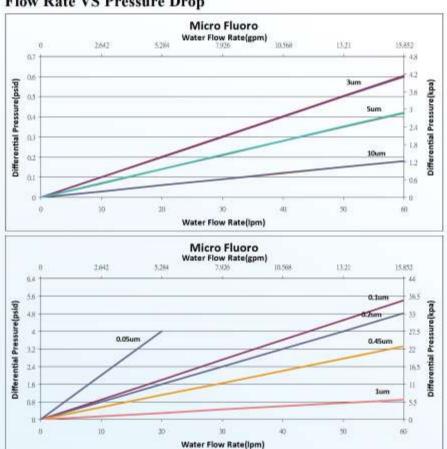
Filtration of CD-R and DVD-R factory

Thermal fine filtration of DI water system

Filtration of chemical delivery system for special photo electrochemical

Performance

Flow Rate VS Pressure Drop



MF	S	D10	- 1	E	DO	A	A	-H
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Pre-flush	Integrity Test	Special
Micro Fluoro	S : Standard J : Hydrophobic PTFE W : Hydrophilic PTFE	A50:0.05 B10:0.1 B20:0.2 B45:0.45 C10:1 C30:3 C50:5 D10:10	A:5" 1:10" 2:20" 3:30" 4:40"	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton	DO: Double Open (full length) TO: Double Open 2C: 222/Cap 2S: 222/Spear 6C: 226/Spear 6S: 226/Spear 2F: 222(with tabs,Autoclavable)/Cap 2B: 222(with tabs,Autoclavable)/Spear 6F: 226(with tabs,Autoclavable)/Spear 6F: 226(with tabs,Autoclavable)/Spear 6B: 226(with tabs,Autoclavable)/Spear	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Test	-H : Alcohol soaked





Ultra Series Pleated Filter Cartridge

Ultra Series Pleated Filter Cartridge

The Ultra Series filter are design for high flow rate filtration required on electronic wet processes. This filter can handle flow rate in excess of 100 LPM thus reducing the system foot print change out cost.

The filter is available in three filter media types: polypropylene, polyethersulfone, and PTFE and removal rating from 0.05um to 70um.

You can easily select the appropriate filter media and the rating for each fluid.

Ultra Clean: Melt-Blown PP micro fiber filter cartridges

Ultra Panel: Polyethersulfone membrane filter cartridges

Ultra Fluoro: PTFE membrane filter cartridges

Diameter	End Cap & Core number	Part of Measurement	10"	C1	C2
	1 000000000000000000000000000000000000	SS	227		
CI		SE	228	83	37
	SE Overall	Overall	244		
		SS	227		
C2		SE	228	83	37
	SE Overall	Overall	244		

Ultra clean







Description

Ultra Clean series Melt-Blown polypropylene micro fiber pleated filter cartridges are designed for high flow rate application.

These filters can handle flow rate up to 100 LPM. Ultra Clean Standard series are double or triple layers structure, thereby long service time and high efficiency. Ultra Clean Plus series made of calendered Melt-Blown polypropylene microfiber, provide absolute grade filter efficiency.

Specification

Micron Rating (Absolute Rating 99.9%):

Ultra Clean Standard:

1, 3, 5, 10, 25, 50, 75, 100 µm

Ultra Clean Plus: 0.2(multi pass test), 0.45, 1 um

Material of Construction:

100% Polypropylene Melt-Blown Micro-Denier fiber

Length: 10 inches, 20 inches

Outer Diameter: 83mm(3.27inches)
Inner Diameter: 38mm(1.50inches)

Operation Conditions

Maximum operation pressure drop:

3.4 kg/cm²(50psid) at 80°C(176°F)

6.9 kg/cm²(100 psid) at 20°C(68°F)

Maximum operation temperature: 80°C(176°F)

Benefits and Features

Absolute ratings from 0.2 to 100µm

Continuously gradient pore structure increase capacity of dust

100% PP for compatibility for a wide range of process fluid

Formed by thermal bond without use any binder and adhesive

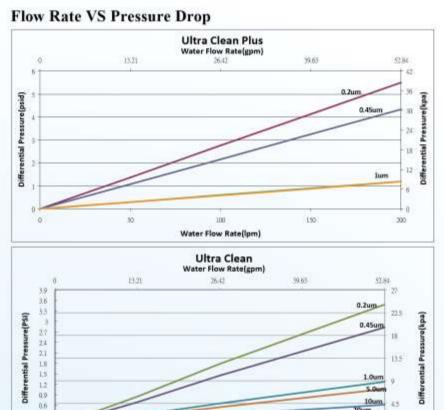
High strength and pressure resistance Certificated by FDA CFR Title 21

Applications

TFT-LCD: wet etching, stripping, developer, cleaning TN/STN: wet etching, stripping, developer, cleaning Color Filter: wet etching, stripping, developer, cleaning Beverage/Wine clarification.

Pre-filter of DI & RO water filtration system for industry Filtration of medium & low viscosity fluids of chemical

Performance



Water Flow Rate(Ipm)

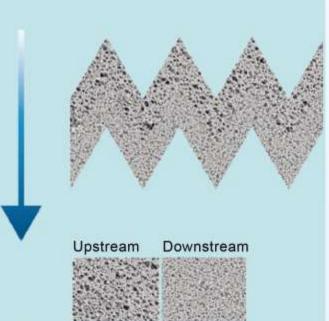
Code Principle

UC	S	D10	4	E	20	A
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Pre-flush
Ultra Clean	S : Standard P : Plus	B20: 0.2 B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30 D40: 40 D50: 50 D75: 75 E100: 100	1 : 10" 2 : 20"	E: EPDM S: Silicone V: Viton T: PFA encapsulate viton	2C : 222/Cap 6C : 226/Cap	A : pre -flush with DI wate N : Non pre -flush

150

Ultra panel





Description

Highly asymmetric structure polyethersulfone membrane make Ultra Panel series filter cartridges for high flow rates and excellent retention performance. These filter cartridges employ a PES membrane with 100% polypropylene support and porous outside/inside cage, thereby good chemicals compatibility. Filter cartridges are using the welding techniques and manufactured in cleaning room enable the smallest contaminant extraction and higher durability.

Specification

Micron Rating:

0.1, 0.2µm, 0.45µm, 1.2µm Materials of Construction:

Medium: Highly Asymmetric Polyethersulfone

membrane

Core, cage and endcaps : Polypropylene Support and drainage:Polypropylene

Length: 10inches, 20inches Outer Diameter: 83mm Inner Diameter: 38mm

Operation Conditions

Maximum operating forward pressure drop: 0.85 MPa @20°C/120 psid @ 68°F 0.34 MPa @80°C/50 psid@ 176°F

Maximum operating temperature:

80°C/176°F

Benefits and Features

Strengthening inner core make for good pressure resistance

High flow rate: these filter can handle flow rates up to 100 lpm

The highly asymmetric structure makes long service life

No extractable, ensure superior downstream cleanliness

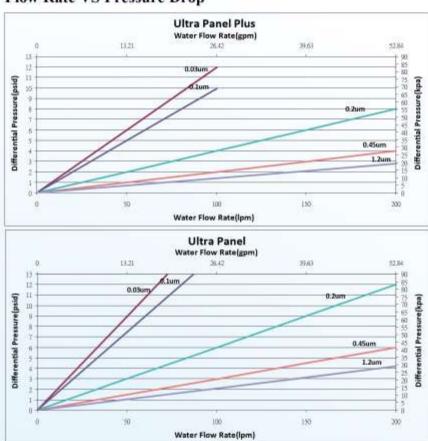
TFT-LCD: Pure water cleaning systems .
TN/STN: Pure water cleaning systems
Color Filter : Pure water cleaning systems

Beverage/Wine clarification.

Filter of plating fluid pr-developers

Performance

Flow Rate VS Pressure Drop

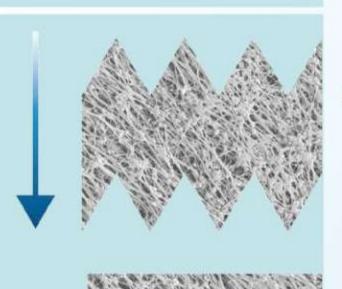


Code Principle

UP	S	C12	1	E	20	А	A
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Pre-flush	Integrity Test
Ultra Panel	S : Standard P : Plus E : Extra	A30: 0.03 B10: 0.1 B20: 0.2 B45: 0.45 C12: 1.2	1 : 10" 2 : 20"	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton	2C : 222/Cap 6C : 226/Cap	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Test

Ultra fluoro





Description

High porosity rate PTFE membrane makes Ultra Fluoro series filter cartridges for high flow rates and excellent retention performance. These filter cartridges utilize a PTFE membrane with 100% polypropylene support and porous outside/inside cage, thereby good chemicals compatibility. Filter cartridges are using the welding techniques and manufactured in cleaning room enable the smallest contaminant extraction and higher durability.

Specification

Micron Rating:

0.05,0.1, 0.2, 0.45, 1,3,5,10µm

Materials of Construction:

Medium :High porosity rate PTFE membrane Core, cage and endcaps: Polypropylene Support and drainage: Polypropylene

Length:10, 20 inches Outer Diameter: 83mm Inner Diameter: 38mm

Operation Conditions

Maximum operating forward pressure drop: 0.85 MPa @20°C/120 psid @ 68°F 0.34 MPa @85°C/50 psid@ 185°F Maximum operating temperature: 85°C/175°F

Benefits and Features

Strengthening inner core make for good pressure resistance

High flow rate : these filter can handle flow rates up to 100 lpm

The high porosity rate structure makes long service life

No extractable, ensure superior downstream cleanliness

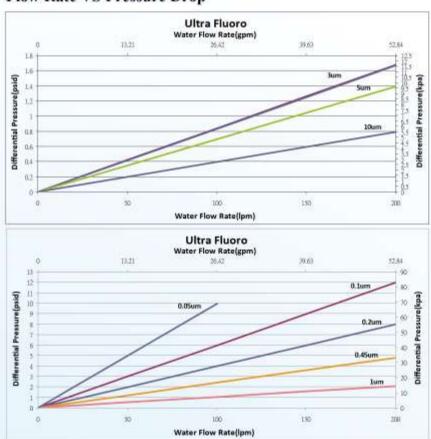
PTFE membrane offers excellent chemical resistance in aggressive chemical applications

TFT-LCD: wet etching and stripping process TN/STN: wet etching and stripping process Electronic grade solvents

Performance

Flow Rate VS Pressure Drop

Magnetic media solvent



UF	S	D10	1	E	2C	A	A
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Pre-flush	Integrity Test
Ultra Fluoro	S : Standard J : Hydrophobic PTFE W : Hydrophilic PTFE	A50: 0.05 B10: 0.1 B20: 0.2 B45: 0.45 C10: 1 C30: 3 C50: 5 D10: 10	1 : 10° 2 : 20°	E: EPDM S: Silicone V: Viton T: PFA encapsulate viton		A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Test





Extra Series Pleated Filter Cartridge

Extra Series Pleated Filter Cartridge

The Extra Series filters are designed for extra high flow rate filtration required on electronic wet processes.

This filter can handle flow rete in excess of 200 LPM thus reducing the system foot print change out cost.

The filter is available in three filter media types: polypropylene, polyethersulfone, and PTFE and removal rating from 0.05um to 70um.

You can easily select the appropriate filter media and the rating for each fluid.

Extra Clean: Melt-Blown PP micro fiber filter cartridges

Extra Panel: Polyethersulfone membrane filter cartridges

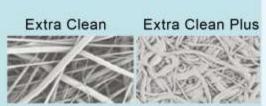
Extra Fluoro: PTFE membrane filter cartridges

Diameter	End Cap & Core number	Part of Measurement	10"	20"	C1	C2
		ss	246	477		
(O) c1		SE	253	484	131	55
	SE Overall	Overall	273	504		

Extra clean







Description

Extra Clean series Melt-Blown polypropylene microfiber pleated filter cartridges are designed for high flow rate application .These filters can handle flow rate up to 200 LPM due to the large surface area of the filter.. Extra Clean Standard series are multi-layers structure which is functioned with fine fibers in inner layer and coarse fibers in outer layers, thereby long service time and high efficiency. Ultra Clean Plus series made of calendered Melt-Blown polypropylene microfiber, provide absolute grade filter efficiency.

Specification

Micron Rating (Absolute Rating 99.9%):

Extra Clean Standard:

1, 3, 5, 10, 25, 50, 75, 100 µm

Extra Clean Plus: 0.2(multi pass test), 0.45, 1 um

Material of Construction:

100% Polypropylene Melt-Blown Micro-Denier fiber

Length: 10 inches, 20 inches

Outer Diameter: 130mm(5.1inches) Inner Diameter: 51mm(2inches)

Operation Conditions

Maximum operation pressure drop:

3.4 kg/cm²(50psid) at 80°C(176°F)

6.9 kg/cm²(100 psid) at 20°C(68°F)

Maximum operation temperature: 80°C(176°F)

Benefits and Features

Absolute ratings from 0.2 to 100µm

High flow rate : these filter can handle flow rates up to 200 lpm

Continuously gradient pore structure increase capacity of dust

100% PP for compatibility for a wide range of process fluid

Formed by thermal bond without use any binder and adhesive

High strength and pressure resistance

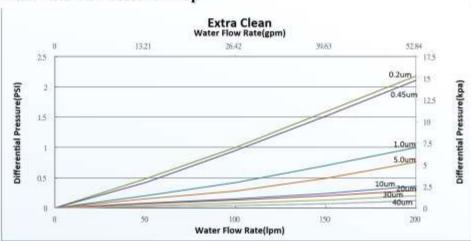
Applications

TFT-LCD: Wet etching pre-cleaning systems TN/STN: Wet etching pre-cleaning systems Color Filter: Wet etching pre- cleaning systems

For high flow rate pre- and clarifying filtration of various chemical

Performance

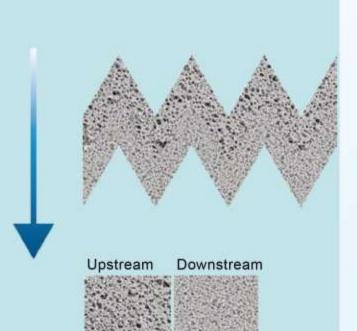
Flow Rate VS Pressure Drop



EC	S	D10	1	E	U	Р	Α
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Core Material	Pre-flush
Extra Clean	S : Standard P : Plus	B20: 0.2 B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30 D40: 40 D50: 50 D75: 75 E100: 100	1 : 10* 2 : 20"	E: EPDM S: Silicone V: Viton T: PFA encapsulate viton	U: U Cup O: O-ring	P: Polypropylene S: Stainless 304	A : pre -flush with DI water N : Non pre -flush

Extra panel





Description

Highly asymmetric structure polyethersulfone membrane make Extra Panel series filter cartridges for high dirt holding capacity and excellent retention performance. The cartridge realizes an extra high flow rate due to large surface area of the filter .These filter cartridges employ a PES membrane with 100% polypropylene support and porous outside/inside cage, thereby good chemicals compatibility. Filter cartridges are using the welding techniques and manufactured in cleaning room enable the smallest contaminant extraction and higher durability.

Specification

Micron Rating:

0.1, 0.2µm, 0.45µm, 1.2µm

Material of Construction:

Medium : Highly Asymmetric Polyethersulfone

membrane

Core, cage and endcaps : Polypropylene Support and drainage:Polypropylene

Length: 10inches, 20inches Outer Diameter: 130mm Inner Diameter: 51mm

Operation Condition

Maximum operating forward pressure drop: 0.85 MPa @20°C/120 psid @ 68°F

0.34 MPa @80°C/50 psid@ 176°F

Maximum operating temperature:

80°C/176°F

Benefits and Features

Strengthening inner core make for good pressure resistance

High flow rate : these filter can handle flow rates up to 200 lpm

The highly asymmetric structure makes long service life

No extractable, ensure superior downstream cleanliness

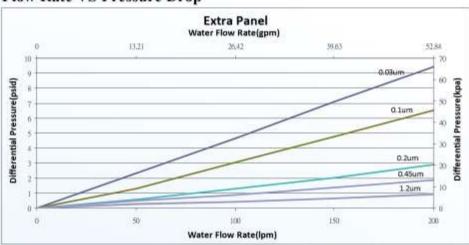
Applications of product

TFT-LCD: Pure water cleaning systems TN/STN: Pure water cleaning systems Color Filter: Pure water cleaning systems

Filter of plating fluid pr-developers

Performance

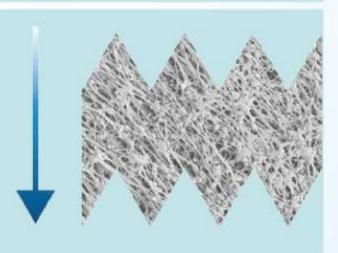
Flow Rate VS Pressure Drop

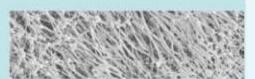


EP	S	D10	1	E	U	Р	A	A
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Core Material	Pre-flush	Integrity Test
Extra Panel	S : Standard P : Plus E : Extra	A30: 0.03 B10: 0.1 B20: 0.2 B45: 0.45 C12: 1.2	1 : 10° 2 : 20°	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton	U : U Cup O : O-ring	P : Polypropylene S : Stainless 304	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Test

Extra fluoro







Description

High porosity rate PTFE membrane makes Extra Fluoro series filter cartridges for high flow rates and excellent retention performance. The cartridge realizes an extra high flow rate due to large surface area of the filter.. These filter cartridges utilize a PTFE membrane with 100% polypropylene support and porous outside/inside cage, thereby good chemicals compatibility. Filter cartridges are using the welding techniques and manufactured in cleaning room enable the smallest contaminant extraction and higher durability.

Specification

Micron Rating:

0.05,0.1, 0.2, 0.45, 1,3,5,10µm

Material of Construction:

Medium: High porosity rate PTFE membrane Core, cage and endcaps : Polypropylene Support and drainage:Polypropylene

Length:10, 20 inches Outer Diameter: 130mm Inner Diameter: 51mm

Operation Conditions

Maximum operating forward pressure drop: 0.85 MPa @20°C/120 psid @ 68°F 0.34 MPa @85°C/50 psid@ 185°F Maximum operating temperature: 85°C/175°F

Benefits and Features

Strengthening inner core make for good pressure resistance

High flow rate: these filter can handle flow rates up to 200 lpm

The high porosity rate structure makes long service life

No extractable, ensure superior downstream cleanliness

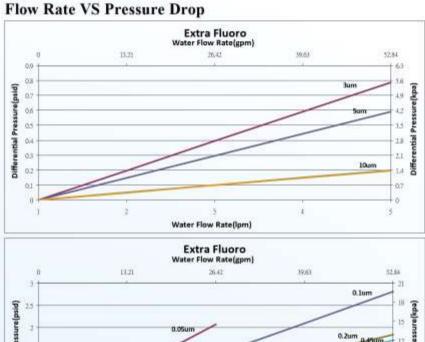
PTFE membrane offers excellent chemical resistance in aggressive chemical applications

Applications of product

TFT-LCD: wet etching and stripping process TN/STN: wet etching and stripping process

Electronic grade solvents Magnetic media solvent

Performance



EF	S	D10	1	E	U	Р	A	A
Product Name	Grade	Rating(um)	Length	O-ring	Code Number	Core Material	Pre-flush	Integrity Test
Extra Fluoro	S : Standard J : Hydrophobic PTFE W : Hydrophilic PTFE	A50 : 0.05 B10 : 0.1 B20 : 0.2 B45 : 0.45 C10 : 1 C30 : 3 C50 : 5 D10 : 10	1 : 10" 2 : 20"	E : EPDM S : Silicone V : Viton T : PFA encapsulate viton	U: U Cup O: O-ring	P : Polypropylene S : Stainless 304	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Test





High Flow Series Pleated Filter Cartridge

High Flow Series Pleated Filter Cartridge

The High Flow Series filter are designed for extra high flow rate filtration .

Max Flow series and Max Pleated are large diameter, coreless, single open-ended, pleated cartridges with an inside to out side flow pattern.

Their large 6"/152mm diameter, reduces the number of filters and size of housing required.

The Cross-Pleated series filter Cartridge is an advance design that use SMS filter media and cross pleat, the surface area is 40 times than traditional pleated filter cartridge in a single cartridge.

Max Flow:

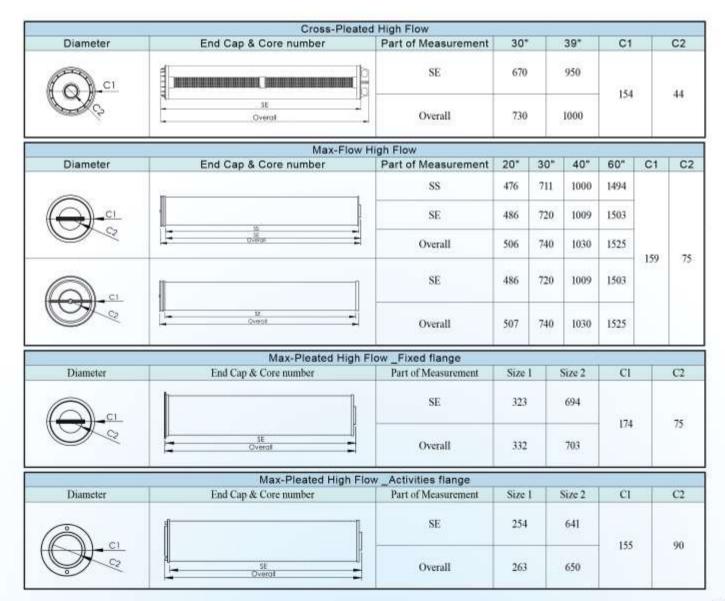
This series filter cartridges are available PET, Nylon and Polypropylene Melt-Blown media for other applications

Max Pleated:

The cartridges are available to fit most size 1 and size 2 bag housings with no hardware changes

Cross Pleated:

The cartridge's cross pleated design making large surface area available that can provides long filter service time



Max flow



Description The Max-Flow His

The Max-Flow High Flow filter is suited for applications such as cooling water, Pre-RO, and resin trap filtration.

It is a large diameter, coreless, single open-ended, pleated cartridge with an inside to outside flow. Puts an extraordinary amount of surface area into a single cartridge.

Specification

Micron Rating: 1, 5, 10, 25, 50, 75 µm

Material of Construction:

Filter Medium: Pleated Polypropylene depth

structure

Support and drainage: Polypropylene

End caps: Polypropylene

Outer Diameter: 152.4mm (6 inches) Inner Diameter: 80mm (3.2 inches)

Length: 508mm (20 inches), 1016mm (40 inches),

1524mm (60 inches)

O-Ring: EPDM(Standard), Viton, Silicone, PEA

encapsulated Viton

Operation Conditions

Maximum operating forward pressure drop: 3.5bar (50 psi) at 25°C (77°F)

Maximum operating temperature: 80°C (176°F)

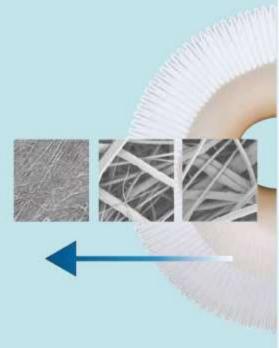


High dirt loading capacity for long service time and lower cost filtration

Up to forty conventional depth filters minimize initial cost

Inside to outside flow configuration all contaminants held within the single ended filter Shorter in down time for element replacement Smaller equipment footprint

Coreless construction minimizes disposal cost



Applications of product

RO Pre-Filtration
UF Membrane Pre-Filtration
Cooling water filtration
Pre filters or Final filters for waste water

Performance

Pressure Drop & Retention Rate

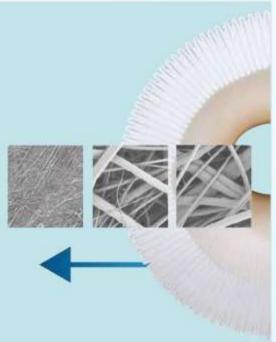
			Ma	x Flow								
Micro Rating		iency m)	Pressure Drop (mbar/m³/h) / (psid/100 gpm)									
(µm)	90%	99.98%	20"/5	08 mm	40" / 1	016 mm	60" / 1	524 mm				
C10	0.5	1.2	3.74	1.232	1.85	0.61	1.24	0.409				
C50	2	5	1.31	0.43	0.65	0.213	0.43	0.143				
D10	5	10	0.99	0.327	0.49	0.162	0.33	0.109				
D25	16	25	0.61	0.202	0.3	0.1	0.2	0.067				
D50	38	50	0.38	0.125	0.19	0.062	0.13	0.042				
D75	65	75	0.09	0.028	0.04	0.014	0.03	0.009				

^{*} By ASTM F-795 Test

MFH	-	C10	-	2	-	Е	-	X		1
Product Name		Rating(um)		Length	0	-ring		Туре		Special
Max Flow		B20 : 0.2 B45 : 0.45 C10 : 1 C50 : 5 D10 : 10 D20 : 20 D30 : 30 D40 : 40		2:20' 4:40' 6:60"	V T	: Silicone : Viton : PFA capsulate		S: PP Ribbon T: PET Ribbon X: Cage SN: PP Ribbon+Nets TN: PET Ribbon+Nets N: Nets SP: PP Ribbon+Cage SI: PP Ribbon+Inner Core+Cage	S	I : Strengthen cap

Max pleated





Description

The High Capacity Pleated Filter is designed to fit inside existing baskets without hardware changes. It provides higher filter surface area and dirt holding capacity. The inside-out flow holds contaminant within the filter High Capacity Pleated Filter holds several times than the typical 500 series bag.

Specification

Micron Rating: Absolute rating 1, 5,10, 25,50,75 µm

Material of Construction:

Filter Medium: Pleated Polypropylene depth structure

Support and drainage: Polypropylene

Inner core: Polypropylene End caps: Polypropylene

Outer Diameter: 152.4mm (6 inches)

Outer Flange Diameter: 184mm (7.24inches),

equal to Size 1/Size 2 Bags

Length: Standard Size 1, Standard Size 2
O-Ring: EPDM(Standard), Viton, Silicone, PFA

encapsulated Viton

Operation Conditions

Maximum operating forward pressure drop:

5.1bar (75 psi) at 25°C (77°F)

Maximum operating temperature: 80°C (176°F)

Benefits and Features

High surface area, high flow capacity
Inside to outside flow configuration all
contaminants held within the single ended filter
Shorter in down time easy to change out
Available to fit most Size 1 and Size 2 bag housing
with no hardware changes

All polypropylene construction provides wide

chemical compatibility

Cartridges are free of surfactants, resins, binder

and adhesive

Applications of product

RO Pre-Filtration
Cooling water filtration
Pre filters or Final filters for waste water
Food and Beverage filtration
Oil Filtration

Performance

Pressure Drop & Retention Rate

		Max	Pleated					
Micro	Efficienc	cy (μm)	Pressure Drop					
Rating	90%	99.98%		(mbar/m3/h)	/ (psid/gpm)			
(µm)	90%	99.9670	Siz	e #1	Siz	e #2		
C10	0.5	1.2	13.683	0.032	6.267	0.022		
C50	2	5	1.817	0.006	2.8	0.008		
D10	4.5	10	0.9	0.003	1.033	0.004		
D25	16	25	0.6	0.002	0.467	0.002		
D50	38	50	< 0.3	< 0.001	0.3	0.001		
D75	65	75	< 0.3	< 0.001	< 0.3	< 0.00		

^{*} By ASTM F-795 Test

MPH	-	C10	-	2	2	E	+	Р	92	SN
Product Name		Rating(um)		Length		O-ring		Code Number		Туре
Max Pleated		B20 : 0.2 B45 : 0.45 C10 : 1 C50 : 5 D10 : 10 D20 : 20 D30 : 30 D40 : 40		1 : Size 1 2 : Size 2		E : EPDM S : Silicone V : Viton T : PFA encapsulate viton		P : Plastic flange N : None		S: PP Ribbon T: PET Ribbon X: Cage SN: PP Ribbon+Nets TN: PET Ribbon+Nets N: Nets SP: PP Ribbon+Cage SI: PP Ribbon+Inner Core+Cage

Cross pleated





Description

The Cross-Pleated High Flow filter Cartridge is suit for applications such as Pre-RO, waste water filtration.

It is designed to fit in a range of vessels that holds from one to over 37 filters for a wide range of flow rates in competitively priced hardware.

Specification

Micron Rating: 1, 5, 10, 20, 30, 40 µm

Material of Construction

Filter Medium: 100% PP Melt-blown micro fiber

Inner core: Polypropylene

Outer sleeve and End caps: Polypropylene Length: 50.8cm (20 inches), 76.2cm(30 inches),

100cm (39 inches)

Outer Diameter: 16.5cm (6.5 inches)
Inner Diameter: 4cm (1.6 inches)

O-Ring: AS-568-226, EPDM(Standard), Viton,

Silicone, PFA encapsulated Viton

Operation Conditions

Maximum operating forward pressure drop:

3.5bar (50.75psi) at 25°C (77°F)

Maximum operating temperature: 80°C (176°F) Recommended Flow : 150 L/min (33GPM) Filtration Area : 12~20 m² (130ft2~216ft2)

Benefits and Features

High dirt loading capacity for long service time and

lower cost filtration

Low initial capital cost

Reduced maintenance time for filter change out

Smaller equipment footprint

Manufactured in clean room, highly clean cartridge

Applications of product

RO Pre-Filtration

UF Membrane Pre-Filtration.

Beverage/Wine clarification.

Filtration of Amines,

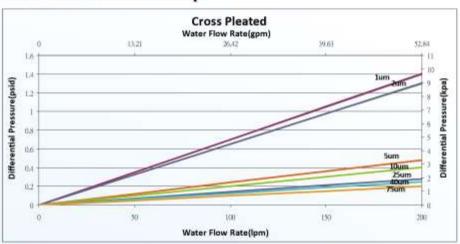
Filtration of Edible oil.

Filtration of glass cut cleaning

Pre filters or Final filters for waste water.

Performance

Flow Rate VS Pressure Drop



Retention Rate

			Cross Ple	eated							
Micro Rating	Filtration Efficiency (%)										
(μm)	1	2	5	10	25	40	75				
C10	99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9				
C20	95	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9				
C50	81.45	91.3	99.9	>99.9	>99.9	>99.9	>99.9				
D10		58.55	78.25	99.9	>99.9	>99,9	>99.9				
D25			55.65	76.35	99.9	>99.9	>99.9				
D40	*****	*****	*****	74.65	85.35	99.9	>99.98				
D75					70.5	88.4	99.9				

CPH	-	D10	77	39	7.	E
Product Name		Rating(um)		Length		O-ring
Cross Pleated		C10:1 C50:5 D10:10 D20:20 D30:30 D40:40		20 : 20" 30 : 30" 39 : 39"		E : EPDM S : Silicone V : Viton T : PFA encapsulate viton













Disposable Filter

Disposable Filter

CAG Series filter

These series filters are idea for small volume batch processing .

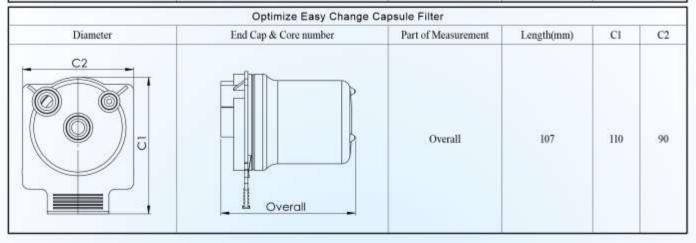
CAG Series filters are available in three filter media types : polypropylene, polyethersulfone and PTFE membrane.

O-ringless designed make CAG filters easy to change .

OEC capsule filter

This capsule filter assembly is designed for clean, simple, safe and fast filter changes-outs in point-of-use photo-chemical dispense applications.

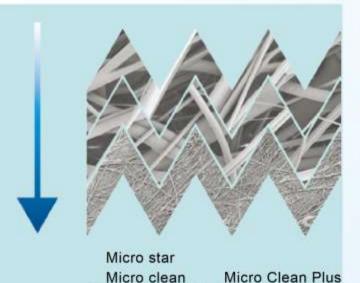
	Capsule			
Diameter	End Cap & Core number	Part of Measurement	Length(mm)	Cl
C1	Overall	Overall	114	70



Liquatec[®]

Capsule clean





Micro clean

Description

The Capsule Clean filters are made entirely of polypropylene and designed to filter liquid process chemicals at flow rate of less than 10 liters per minute. The disposable filter which is fully encapsulated in a compact and easy-to-handle housing shell is cost effective for low-volume filtration. All the products are manufactured, tested, and packaged in a clean room to ensure the cleanliness.

Specification

Micron Rating (Absolute Rating 99.9%): 0.2, 0.45, 0.65, 1.0, 1.5, 5.0, 10, 20, 30, 40um

Material of Construction:

Medium: Melt-Blown PP micro filber Support, shell, drainage, core and caps:

100% polypropylene

Length: 114mm (4.5inches), 173mm (6.8inches)

Outer Diameter: 72mm (2.83 inches)

Complies with USP XXI Class VI for plastics Non-toxic per WI-38 Human Cell Cytotoxicity Test All materials meet FDA regulations for food contact

Operating Conditions

Maximum temperature: 80°C (176°F)

Maximum differential:

3.4kg/cm2 (50 psid)@20°C(68°F)

Benefits and Features

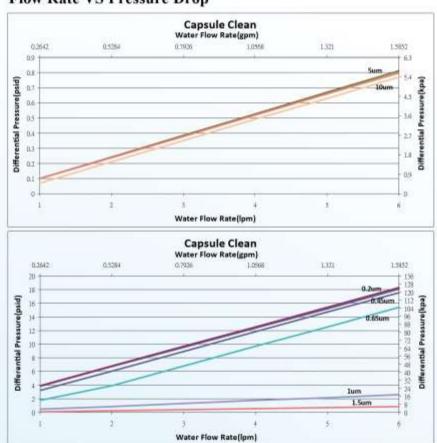
Sealing method: thermal welding, eliminating adhesive extractable Manufactured in cleanroom Vent at highest location Drain at lowest location O-ringless design

Application

TFT-LCD Color Filter :Photo resists, coatings Filtration of solvents Sterile tank venting Small volume point-of-use filtration

Performance

Flow Rate VS Pressure Drop



CAG	CS	B20	S	25	N
Product Name	Series	Rating(um)	In/Out,Vent/Drain	Length	Pre-flush
Capsule Code	CS: Micro Clean Standard CP: Micro Clean Plus SS: Micro Star Standard	B20: 0.2 B50: 0.5 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30	S : 6mm,4mm SW V : 1/4*,1/8*NPT X : 1/4*,1/4*SW	25 :114mm 50 :173mm	A : pre -flush with DI water N : Non pre -flush

Liquatec[®]

Capsule panel



Upstream Downstream

Description

The Capsule Panel filter capsules are designed for simple, quick, and efficient filtration of fluids and gases used in laboratory, pilot, and small-scale applications. The PES membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per unit area as compare to other membrane cartridges. No adhesives, binders, or surfactants are used in the manufacturing process and all capsules are rinsed with high-purity water to reduces extractables and downtime. All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package.

Specification

Micron Rating :0.03, 0.1, 0.2, 0.45, 1.2um

Material of Construction: Medium: PES Menbrane

Support, shell, drainage, core and caps: 100%

polypropylene

Length: 114mm (4.5inches), 173mm (6.8inches)

Outer Diameter: 72mm (2.83inches)

Toxicity

Complies with USP XXI Class VI for plastics Non-toxic per WI-38 Human Cell Cytotoxicity Test All materials meet FDA regulations for food contact

Operation Conditions

Maximum temperature: 93°C(200°F) Maximum differential:5kg/cm²(70 psid)@20°C(68°F)

Benefits and Features

Sealing method: thermal welding, eliminating adhesive extractable

Manufactured in cleanroom

Vent at highest location

Drain at lowest location

O-ringless design

Applications of Product

Ink jets

Filtration of acids, bases and solvents

Beverages

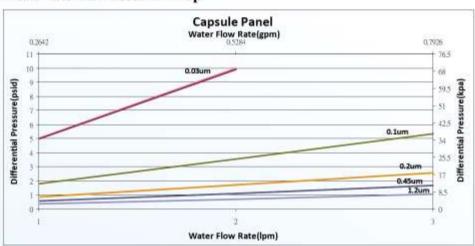
Sterile tank venting

Small volume point-of-use filtration

Fine chemicals

Performance

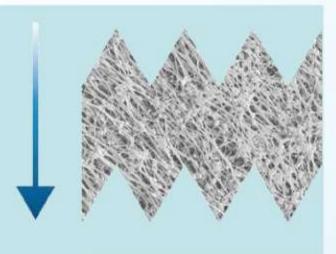
Flow Rate VS Pressure Drop

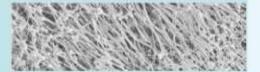


CAG	PS	B20	S	25	N	N
Product Name	Series	Rating(um)	In/Out,Vent/Drain	Length	Pre-flush	Integrity Test
Capsule Code	PS: Micro Panel Standard PP: Micro Panel Plus PE: Micro Panel Extra DS: Micro Dura Standard DP: Micro Dura Plus DE: Micro Dura Extra	A30: 0.03 B10: 0.1 B45: 0.45 C12: 1.2	S: 6mm,4mm SW V: 1/4",1/8"NPT X: 1/4",1/4"SW	25 :114mm 50 :173mm	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Tes

Capsule fluoro







Description

The CAG Fluoro filters are designed to filter liquid process chemicals at flow rate of less than 10 liters per minute. The medium of PTFE membrane is constructed by polypropylene supports and are compatible with a wide range of solvents, acids, and bases at ambient temperatures. The disposable filter which is fully encapsulated in a compact and easy-to-handle housing shell is cost effective for low-volume filtration. All the products are manufactured, tested, and packaged in a clean room to ensure the cleanliness.

Specification

Micron Rating:

0.05, 0.1, 0.2, 0.45, 1, 3, 5.0, 10um

Material of Construction: Medium: PTFE Menbrane

Support, shell, drainage, core and caps:

100% polypropylene

Length: 114mm(4.5inches), 173mm(6.8inches)

Outer Diameter: 72mm(2.83 inches)

Toxicity:

Complies with USP XXI Class VI for plastics Non-toxic per WI-38 Human Cell Cytotoxicity Test All materials meet FDA regulations for food contact

Operating Conditions

Maximum temperature: 93°C(200°F)
Maximum differential:5kg/cm²(70 psid)@20°C
(68°F)

Benefits and Features

Sealing method: thermal welding, eliminating adhesive extractable
Manufactured in cleanroom
Vent at highest location
Drain at lowest location.
O-ringless design

Application of Product

TFT-LCD ArrayProcess :Photo resists, coatings

Filtration of acids, bases and solvents

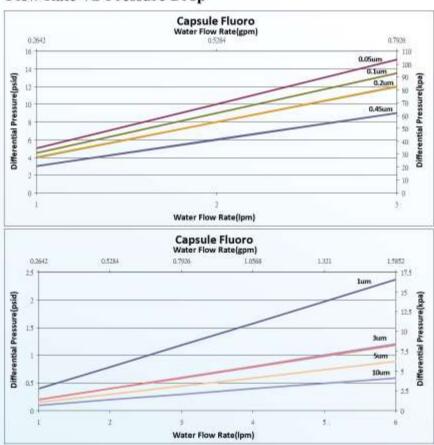
Wet etching process: chemical, solvents, coatings

Sterile tank venting

Small volume point-of-use filtration

Performance

Flow Rate VS Pressure Drop



CAG	FS	B20	S	25	N	N
Product Name	Series	Rating(um)	In/Out,Vent/Drain	Length	Pre-flush	Integrity Test
Capsule Code	FS: Micro Fluoro Standard FJ: Micro Fluoro Hydrophobic FW: Micro Fluoro Hydrophilic	A50:0.05 B10:0.1 B20:0.2 B45:0.45 C10:1 C30:3 C50:5 D10:10	S : 6mm,4mm SW V : 1/4",1/8"NPT X : 1/4",1/4"SW	25 :114mm 50 :173mm	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Test

OEC Capsule filter





Description

The OEC filter is designed for extremely small resist pump installations. It is specifically designed for small volume dispense systems which require the smallest footprint area. The OEC filter unit consists of a quick disconnect head manifold and a polypropylene capsule. This configuration allows for safe, quick and easy filter change-outs. Three filter media types, PTFE, PES, PP are available to optimize your filtration selection.

Specification

Micron Rating (Absolute Rating 99.9%):
0.2, 0.45, 0.65, 1.0, 1.5, 5.0, 10, 20, 30, 40um
Material of Construction:
Medium: Melt-Blown PP micro filber
Support, shell, drainage, core and caps:
100% polypropylene

Operation Conditions

Maximum temperature: 80°C(176°F) Maximum differential: 3.4kg/cm² (50 psid)@20°C (68°F)

Benefits and Features

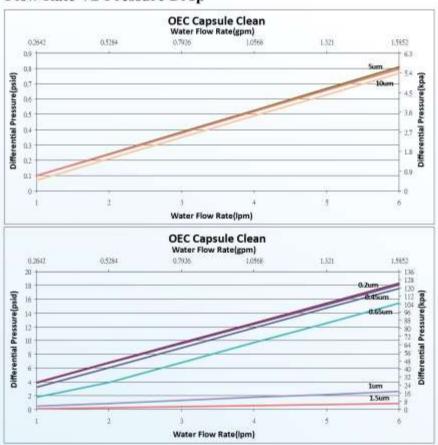
Capsule style filter assembly
Minimized hold-up volume
One step quick filter replacement
Reduces chemical waste during filter startup and
change-out

Applications of Product

TFT-LCD Color Filter :Photo resists, coatings Filtration of solvents Small volume point-of-use filtration

Performance

Flow Rate VS Pressure Drop



OEC	CS	B20		1	E	N	N
Product Name	Series	Rating(um)	Length		O-ring	Pre-flush	Integrity Test
Optimize Easy Change Capsule Filter	CS: Micro Clean Standard CP: Micro Clean Plus SS: Micro Star Standard FS: Micro Fluoro Standard FJ: Micro Fluoro Hydrophobic FW: Micro Fluoro Hydrophilic PS: Micro Panel Standard PP: Micro Panel Plus PE: Micro Panel Extra DS: Micro Dura Standard DP: Micro Dura Plus DE: Micro Dura Plus	A30: 0.03 A50: 0.05 B10: 0.1 B20: 0.2 B45: 0.45 C10: 1 C30: 3 C50: 5 D10: 10 D20: 20 D30: 30	1:Size1	107mm	E:EPDM S:Silicone V:Viton T:PFA encapsulate viton	A : pre -flush with DI water N : Non pre -flush	N : Non Test A : Bubble Tes

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End Cap Configuration

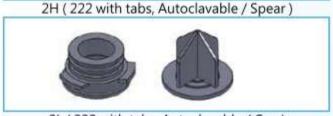


































Conversion Table for Commonly Used

Units in Water Treatment Engineering

	Unit					
	1 (m) = 100 (cm) = 1000 (mm)	= 1,000,000 (µm)				
	1 (yd) = 3 (ft) = 36 (in)					
Linear	1 (m) = 1.09 (yd)	1 (yd) = 0.9144 (m)				
	1 (m) = 3.28 (ft)	1 (ft) = 0.3048 (m)				
	1 (ft) = 0.3937 (in)	1 (in) = 2.54 (cm)				
Saucro	1 (m2) = 1.19 (yd ²) = 10.79 (ft ²)				
Square	1 = 3.306 (m ²) = 35.5833 (ft ²)					
	$1 (L) = 1000 (cm^3) = 1000 c.c$	= 1000ml				
	1 (L) = 0.0353 (ft ³) = 61.0233 ((in ³)				
Cubic	1 (L) = 0.21998 (gal)	1 (L) = 0.21998 (gal)				
Cubic	1 (U.K. gal) = 4.54596 (L)	1 (U.S gal) = 3.785 (L)				
	1 (ft3) = 1728 (in ³)	1 (ft3) = 1728 (in ³)				
	1 (m3) = 1000 (L) = 1 Ton(wate	er)				
Mojaht	1 (kg) = 1000 (g) = 1,000,000	(mg)				
Weight	1 (kg) = 2.204 (lb)	1 (lb) = 0.454 (kg)				
	1GPD = 24GPh = 1440GPM =	6537.6LPM				
Flow rate	1GPM = 4.54LPM					
	1LPM = 0.22GPM					
	1 kg/cm ² = 14.2psi (1b/mC) = 0	0.098 Mpa				
	1 psi = 0.070307kg/cm ²	1kg/cm ² = 14.22psi				
Pressure	1 psi = 6894.76 pa					
	1 mmHg = 9.80665 pa	1pa = 0.10197mmHg				
	1 bar = 1.0197 kg/cm ²					
Tomporatura	°C = 5/9 (°F-32)					
Temperature	°F = 9/5 (°C+32)					
Viscosity	1 poise (g/cm.s) = 100 centipo	pise (cps)				

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Materials Selection Guide

Key for Selection Guide

Filter Media:		Container Material:
F-1 - Rayon	F-13 - Phenolic Resin Pleated	C-1 - Steel
F-2 - Cotton	Paper (718 size)	C-2 - Stainless Steel
F-3 - Acetate	F-15 - Polyester	C-4 - Rubber Lined
F-5 - Orlon (Acrylic)	F-17 - Phenolic Resin Pleated	C-5 - Special (Kynar ³ , PVC,
F-6 - Nylon	Paper (2 1/2" Diameter)	Fluoroshield ² , etc.)
F-7 - Glass Fiber	F-18 - PCC	C-6 - Carpenter 20
F-9 - Polypropylene	F-19 - RBC	C-7 - Plastic
F-10 - Cranite ^{EM} (Fullers Earth)	F-20 - Polymate	C-8 - Fiberglass Reinforced Plastic
F-11 - Rayon Cellulose	F-21 - Advantage	(A)
F-12 - Cotton Waste & Excelsion	See page 16 for Properties of Filter Media Materials Chart	

% Concentration		Temp. F"	Filter Media	Container	Core	Gasket
Acetaldehyde		125	F-6,9,15	C-2	H-2	G-5
Acetaldehyde	10%	70	F-15	C-2	H-2	G-5
Acetamide	Any	150	F-6	C-1,2	H-1,2	G-2,3
Acetate Solvents	32.70	Note 2,3	F-1,2,7	C-1	H-1	G-1,5
Acetate Solvents		70	F-9	C-1	H-1	G-1,5
Acetic Acid	0-20%	100	F-1,2,9,15,17,19,20	C-2	H-2,9,12	G-3,5,6,10,11
Acetic Acid	50%	Note 2,8	F-9	C-2	H-2,9,12	G-5,6,10
Acetic Acid	75%	100	F-7.9	C-2	H-2,3	G-1,5,6,10
Acetic Acid	Any	Note 2	F-5,7,9	C-2,6	H-2	G-1,5,6,10
Acetic Acid	100%	70	F-5,7,9,15	C-2,6	H-2,9,12	G-1,5,6,10
Acetic Anhydride	Any	200	F-7	C-2.6	H-2	G-5
Acetic Anhydride	Any	125	F-7,9	C-2,6	H-2,12	G-5
Acetone	7103	50	F-1.2.9.15.17.18.19.20.21	C-1	H-1,9,12	G-1,4,5,10
Acetonitrile		100	F-18	C-2	H-2	G-2.3.9.10.13
Acetophenone	100%		F-9	C-2	H-2,9	G-5,10
Acetyl Chloride	10070	1	F-8	C-2	H-2,9	G-5,10 G-5,9
Acetyl Chioride Acetylsalicylic Acid		125	F-1,2	C-2 C-2	H-2	G-2,3,7
Acetylsalicylic Acid Acetylene		150	F-1,2 F-1,2,6,9,15,17	C-2 C-1	H-1,12	G-2,3,7 G-2,6,9,10
	200	150	F-1,2,6,9,15,17 F-9	C-1		G-2,0,9,10
Acrilflavine	2%		F-9		H-9	
Acrylic Emulsions	2000	122			H-9	
Acrylonitrile	100%	70	F-1,2,6,15,19	C-2	H-2,13	G-5
Adhesives				C-1,2	H-1	G-2,3,5
Adipic Acid	100%	ASS. 1966	F-9,19	C-5	H-9	G-5,9
Air		Note 2,8	F-1,2,7,9,15,17,18,21	C-1	H-1,2,9,12	G-1,2,3,4,13
Alcohol Solvents		Note 2,3	F-1,2,7,9,13,18	C-1	H-1	G-1,5,9,13
Ally Alcohol			F-1,2,9	C-1	H-1	G-2,3,5,6
Ally Chloride			F-9	C-2	H-9	G-5
Almond Extract			F-9		H-9	
Alum	Any	160	F-9,15	C-4,5	H-4	G-1,2,3,6,10
Aluminum Acetate		180	F-1,2,17	C-4,5	H-4	G-5,6,10
Aluminum Acetate	65%	70	F-15	C-4,5	H-4	G-5,6,10
Aluminum Chloride	Any	130	F-1,2,9,15,17	C-4,5	H-12	G-2,3,6,10,11
Aluminum Fluoride	35 v (100 C)		F-9		H-9	10 C C C C C C C C C C C C C C C C C C C
Aluminum Hydroxide		70	F-1,2,6,9	C-1,2,6	H-2,9,13	
Aluminum Nitrate	Any	150	F-1,2,15,17	C-2	H-4	G-2,3,6,10
Aluminum Oxychloride	7.75%		F-9		H-9	30.5X618185
Aluminum Potassium Sulfate			F-9		H-9	
Aluminum Sulfate		70	F-6,9,15	C-1,2	H-1,2,9	G-2,3,5,6,10
Amino Acids		150	F-1,2	C-2	H-4	G-5
Amino Acios Aminoethanolamine		225	F-1,2	C-1,2	H-2	G-5,6
Ammonia	30%	70	F-2,18	C-1,2	H-2,4,9,12	G-2,3,6,10,13
Ammonia Liquid Anhydrous	5070	Note 3,8	F-6,7,9,21	C-1	H-2,4,9,12	G-2,3,6,10
Ammonia Liquid Annydrous Ammonia Gas(Dry)		Note 3,8,11	F-1,2,6,9,17,19	C-1	H-1,2,9,12	G-2,3,10,11
				A COLOR		
Ammonia Gas(Wet)	120,000	Note 3,8,11	F-5,6,9,19	C-2	H-4,9,12	G-2,3,5,10,11
Ammonium Acetate	Any	125	F-9	C-2	H-4,12	G-5

Core Material & Band Ring for I	lags:	Gasket Materia	al:			
H-1 - Tinned Steel H-2 - 304 Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless S H-12 - Glass Filled Polypropylen H-13 - Nylon		G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon³ G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless, Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton		G-11 - Hypal G-12 - Cork G-13 - Silicor See page 16 i	on ³ or Properties of G trademark e & Associates trai	M, EPR & EPDM) asket Materials Char demark
% Concentration		Temp. F ⁿ	Filter Media	Container	Core	Gasket
Ammonium Bicarbonate Ammonium Bicarbonate Ammonium Bromide	Any 50% Any	125 160 Note 3,8	F-9 F-1,2,15,17 F-5,7,9,15	C-2 C-2 C-4	H-4,12 H-4,12 H-4,9,12	G-3,5,10 G-3,5,10 G-5

% Concentration		Temp. F*	Filter Media	Container	Core	Gasket
Ammonium Bicarbonate	Any	125	F-9	C-2	H-4,12	G-3,5,10
Ammonium Bicarbonate	50%	160	F-1,2,15,17	C-2	H-4,12	G-3,5,10
Ammonium Bromide	Any	Note 3,8	F-5,7,9,15	C-4	H-4,9,12	G-5
Ammonium Carbonate	Any	150	F-1,2,9,15,17	C-1	H-9,12	G-3,6,10
Ammonium Chloride	Any	Note 3,8	F-1,2,5,7,9,15,17	C-4	H-4,9,12	G-2,3,6,10,11
Ammonium Fluoride	Any	Note 3,8	F-5.9	C-4	H-9,12	G-3,5
Ammonium Fluoride	40%	150	F-5,9,15	C-4	H-12	G-3,5
Ammonium Hydroxide	28%	150	F-1,2,9,15,17,18,20,21	C-1.2	H-2.9.12	G-3,6,10,11,13
Ammonium Hyposulfite	Any	180	F-1.2	C-2	H-2	G-3,5,7
Ammonium Nitrate	Any	Note 3.8	F-5,6,9,15	C-1,2	H-2,6,9,12	G-2,3,6,11
Ammonium Oxalata	5%	Note 3.8	F-9	C-2	H-2,9,12	G-3.7
Ammonium Persulfate	Any	180	F-9,15	C-2	H-2,4,12	G-3,7,10
Ammonium Persulfate	5%	Note 3.8	F-9,15	C-2	H-2,4,9,12	G-3,7,10
Ammonium Persulfate	Any	Note 3,8	F-7,9,15	C-2	H-2,4,9,12	G-2,3,6,10,11
Ammonium Phosphate	21113	140	F-9	C-2	H-2,4,9	G-2,3,5,6,9,10,13
Ammonium Sulfate	Any	Note 3,8	F-7,9,15	C-2	H-2,4,9,12	G-2,3,6,10,11
Ammonium Sulfate	5%	70	F-9,15	C-2	H-2,4,9	G-2,3,5,10
Ammonium Sulfide	27.74	1.0	F-9	C-2	H-2,10	G-2,3,5,9
Ammonium Thiocyanate	Any	Boil	F-1,2	C-2	H-2,10	G-5,6
Amyl Acetate	Any	Note 3	F-1,2,15,18	C-1	H-1.2	G-4,5,10
Amyl Alcohol		150	F-1,2,15,18 F-1,2,9.15,17,18,21	C-2	H-4,9,12	G-3,5,6,10
	Any	130	TO POST TO THE POST OF THE POS	C-2 C-2		
Amyl Chloride Aniline	1000/	150	F-21	C-2 C-2	H-2,4 H-2,4	G-5,6,10
377777777	100%	120	F-1,2,9,15			G-5,6,10
Antimony Trichloride	14		F-9	C-2	H-9	G-5,9,10
Arsenic Acid	Any	Note 3,8	F-9	C-2,4	H-4,9,12	G-2,3,6,10,11
Arsenic Acid	80%	70	F-9,15,19	C-2,4	H-4,9,12	G-2,3,6,10,11
Aqua Regia		Note II	F-7,9	2000	H-9	G-5,9
Asphalt		70	F-1,2,9	C-1,2	H-1,2,4	G-5,9
Banana Oil		70	F-1,6,15	C-1,2	H-1,2,4,13	G-4,5
Barium Carbonate		Note 11	F-6,15,9	C-2	H-9,13	G-2,3,5,9,10
Barium Chloride	10%	Note 2,8	F-1,2,9,15,17	C-4,5	H-9,12	G-2,3,6,10,11
Barium Hydroxide			F-9		H-9	
Barium Sulfate			F-9		H-9	
3arium Sulfide			F-9	0.000	H-9	000404575111
Beer			F-1,2,17	C-2	H-2,4	G-2,3,7
Beet Sugar Liquors			F-1,2,9	C-2	H-2,4	G-2,5,6,10,13
Benzaldehyde	100%	70	F-1,6,7,15,17,18,20,21	C-1	H-13	G-5,6,10
Benzene		Note II	F-1,2,15,17,18,19	C-1	H-1	G-4,9
Benzoic Acid	10%	Note 3,8	F-1,2,9,15	C-2	H-2,9,10,12	G-1,5,9
Benzoic Acid	Any	Note 3,8	F-9,15	C-2	H-2,9,12	G-5,9
Benzyl Alcohol	Any	150	F-1,2,9,15,17	C-1,2	H-1,2,6	G-2,3,10,11
Benzyl Chloride	- 2		F-9	C-2	H-9	G-5,9
Bismuth Carbonate			F-9	C-2	H-9	G-5,7,9
Bleach		30	F-9	C-2	H-9	G-5,10
Borax			F-9	C-2	H-2,9,10	G-3,5,9

Liquatec[®]

Key for Selection Guide

Filter Media:					Container Mater	rial:	
F-1 - Rayon		F-13 - Phenotic	Resin Pleated		C-1 - Steel		
F-2 - Cotton			(18 size)		C-2 - Stainless Steel		
F-3 - Acetate		F-15 - Polyeste			C-4 - Rubber Lin		
F-5 - Orlon (Acrylic)		F-17 - Phenolic			C-5 - Special (Ky		
F-6 - Nylon			! 1/2" Diameter)		Fluoroshie		
F-7 - Glass Fiber		F-18 - PCC	1/2 Diameter)		C-6 - Carpenter2		
						0	
F-9 - Polypropylene		F-19 - RBC			C-7 - Plastic		
F-10 - Cranite TM (Fullers Earth)		F-20 - Polymat			C-8 - Fiberglass	Reinforced	
F-11 - Rayon Cellulose		F-21 - Advanta		Park Marketon	Plastic		
F-12 - Cotton Waste & Excelsion	r	See page 16 for	r Properties of Filter Media Materia	ls Chart			
% Concentration		Temp. F ⁿ	Filter Media	Container	Core	Gasket	
Boric Acid	10%	Note 3,8	F-1,2,9,15,17	C-2	H-1,2,9,12	G-2,3,4,5,6,10,11	
Boric Acid	Any	Note 3,8	F-9,15	C-2	H-1,4,9,12	G-2,3,4,5,6,10,11	
Brandý	00.180	II PENGSOP NO	F-1,2	C-2	H-2	G-7	
Brine			See Water, Salt	G- 346	1000		
Bromine Anhydrous	100%	Note 3	F-1,2	C-5	H-4	G-5,9	
Bromine Water	Any	Note 3	F-7	C-2	H-2,4	G-5,9	
Bromotoulene	499540	100000000	Control Control	0.0000	- 12 - 22 - 24 - 14 - 14 - 14 - 14 - 14	ACCOMMON A	
Butane Gas			F-1,2,15,17	C-1	H-1	G-2,3,9	
Butanoic Acid			F-1,6,9	C-2	H-1,2,4,13	G-5,9	
Butyl Acetate	Any	70	F-1,2,18,19,20,21	C-1	H-2,4	G-4,5	
Butyl Alcohol (Butanol)	Any	150	F-1,2,9,15,17,18,19,20,21	C-1	H-1,9,12	G-2,3,4,11,13	
Butyl Cellosolve		70	F-1,9,18,21	C-2	H-1,2,4,9	G-6,10	
Butyl Chloride		70	F-1	C-1,2	H-2,4	19503950	
Butylene		70	F-1,6	C-1,2	H-1,2,4,13	G-5,9	
Butylphthalate		4:	F-9		H-9	\	
Calcium Carbonate			F-5,6,9	C-2	H-2,9,10	G-2,3,5,9	
Calcium Chlorate		3 - 2 CO CO CO CO	F-9	C-2	H-2,9,10	G-2,3,5,9	
Calcium Chloride	Any	Note 2,8	F-1,5,9,15,17	C-2	H-4,9,12	G-2,3,6,10	
Calcium Hydroxide	Any	Note 3,8	F-6,9	C-4	H-4,9,12,13	G-5,10	
Calcium Hydroxide	5%	150	F-1,2,9,17	C-2	H-4,9,12	G-5,10	
Calcium Hypochlorite	Any	Note 3,8	F-5,9	C-4,5	H-4,9,12	G-5,6,9,10,11	
Calcium Nitrate	Any	Note 3,8	F-1,2,9,15,17,21	C-1	H-2,9,12	G-2,3,6,10,11	
Calcium Phosphate			F-9	2.535	H-9	100000000	
Calcium Sulfate			F-9	C-2,5	H-2,9,10	G-2,3,5,7,9	
Calcium Sulfide		4	F-9	C-2	H-9	G-5,7,9	
Calgonite			F-9	0.0	H-9		
Cane Sugar	Any	Note 2	F-1,2,3,9	C-1,2	H-2,4	G-5,7	
Caprolactam	100%	160	F-7	C-2	H-2	G-5	
Carbolic Acid	04/07/02/0		See Phenol	0.1	17.4		
Carbon Dioxide (Gas)	Any	225	F-1,2,7,15,17,18,20	C-1	H-1	G-2	
Carbon Dioxide/Ethylene C	oxide	Note 2	F-1,2	C-2	H-2	G-5,13	
Mixture 90/10		N1 4 2 0	E 1 2 15 20 21	0.0	11.5.10.15	0.60	
Carbon Disulfide		Note 3,8	F-1,2,15,20,21	C-2	H-2,4,9,12	G-5,9	
Carbon Monoxide		Note 2,3	F-1,2	C-1	H-1	G-2	
Carbon Monoxide		180	F-1,2,7,9,15	C-1	H-1	G-2	
Carbon Tetrachloride (Dry)		Note 2	F-1,2,6,15,18	C-1	H-1	G-4,5,9	
Carbon Tetrachloride (Wet)		Note 2	F-1,2,6,15	C-2	H-13,2	G-4,5,9	
Carbonated Water	1000000	100	F-1,2,6,9	C-2	H-2,4,9,13	G-2,3,5,6,9,10,13	
Carbonic Acid	Any	100	F-1,2,6,7,9,21	C-2	H-2,4,9,12,13	G-5,9,13	
Cascade (1%)			F-9	0.0	H-9	0.0220	
Casein		NI-t- 2.0	F-9	C-2	H-9	G-2,5,7,9	
Castor Oil		Note 2,8	F-1,2,9,19	C-1,2	H-2,9,12	G-2,3,9,11	
Caustic Potash		1.	See Potassium Hydroxide	1	1	1//	
Caustic Soda			See Sodium Hydroxide	0141	11.0	0.50	
Cellosolve			F-9,20	C-1,2,4	H-9	G-5,9	
Cetyl Alcohol			F-5,6,9		H-9,13	G-5	

Core Material & Band Ring for Bags:	Gasket Material:	
H-1 - Tinned Steel	G-1 - Asbestos Substitute	G-10 - Ethylene Propylene (EPM, EPR & EPDM)
H-2 - 304 Stainless Steel	G-2 - Buna N	G-11 - Hypalon ³
H-4 - 316 Stainless Steel	G-3 - Neoprene	G-12 - Cork
H-9 - Polypropylene	G-4 - Plant Fiber	G-13 - Silicone
H-10 - Passivated 316 Stainless Steel	G-5 - Teflon ³	See page 16 for Properties of Gasket Materials Chart
H-12 - Glass Filled Polypropylene	G-6 - Butyl Rubber	¹ A Pennwalt trademark
H-13 - Nylon	G-7 - Buna N FDA (Tasteless, Odorless, Non- Toxic)	² A W.L. Gore & Associates trademark
\$4X	G-8 - Natural Rubber	3A Du Pont trademark
	G-9 - Viton	

% Concentration		Temp. F ⁿ	Filter Media	Container	Core	Gasket
Chloracetic Acid		70	F-9	C-2	H-9	G-5
Chlorinated Hydrocarbons		Note 2	F-1,2,10	C-1	H-1	G-1,4,5,9
Chlorinated Paraffin		Note 2	F-1,2	C-1	H-1	G-1,4,5,9
Chlorine Gas(Dry)	Any	Note 3	F-5,7,15	C-4,5,6	H-4	G-5.9
Chlorine Gas(Wet)	Any	Note 3	F-5,7,15	C-5	1	G-1,5,9
Chlorine Water	Any	Note 3	F-5,7,15	C-4,5		G-1,3,5,9
Chlorobenzene	Zitty	200	F-1,2,5,6,7,15,19	C-2	H-2,4,13	G-5,9
Chloroform	Any	200	F-1,2,6,15,18,19	C-1	H-1,13	G-1,4,5,9
MANUFACTURE CONTRACT	Auty		F-1,2,0,13,18,19	C-1	H-1,13	
Chlorophane Charalete Syrun			F-9	C-1	H-9	G-1,4,5,9
Chocolate Syrup		100	F-9	0.5	H-4	0.5
Chlorosulfonic Acid		100	es (a)	C-2		G-5
Chrome Alum			F-9		H-9	
Chromic Acid	10%	100	F-7,9,15,20,21	C-6	H-4,9,12	G-5,9
Chromic Acid	Any	200	F-7,9	C-6	H-4	G-5,9
Chromic Sulfate	Any	140	F-7,9,15	C-4	H-4,12	G-5
Cider		1200 0000000	F-1,9	C-4	H-9	G-2,3,6,9,10,13
Citric Acid	Any	Note 3,8,11	F-1,2,9,17,18,19,21	C-2	H-2,9,12	G-1,2,3,6,7,10,13
Cobalt Carbonate	10%		F-2	C-2	H-1	G-5
Coconut Oil		Note 2	F-1,2,10,19	C-1,2	H-1,2	G-2,6,7,12
Cod Liver Oil		10000000	F-9	V	H-9	est contents to
Code Oven Gas			F-9		H-9	
Corn Oil		Note 2	F-1,2,9	C-1.2	H-1,2	G-2.6.7.12
Cotton Seed Oil		Note 2	F-1,2,6,9,10,18,20,21	C-1.2	H-1,2	G-2,6,7,12,13
Lard		Note 2	F-1,2,9,10	C-1,2	H-1,2	G-2,6,7,12
Peanut Oil		Note 2	F-1,2,9,10	C-1.2	H-1,2	G-2,6,7,12
Soybean Oil		Note 2	F-1,2,9,10	C-1,2	H-1,2	G-2,6,7,12
Coffee Extract		70	F-1,6,9,15	C-2	H-2,4,13	G-2.3.5.6.13
Cola Syrup		70	F-1.9	C-2	H-2,4,9	G-5
		Note 3	F-9	C-2	H-4	G-5,6
Copper Ammonium Acetate		Note 3	F-9	C-2	H-9	G-5,0
Copper Chloride		_				
Copper Cyanide			F-9		H-9	
Copper Fluoride			F-9		H-9	
Copper Nitrate			F-9	5 25500	H-9	212-24000000
Copper Sulfate	Any	Note 3,8	F-5,9,15	C-2,4	H-2,4,9,12	G-1,2,3,9,10,11
Corn Syrup	Any	Note 2	F-1,2	C-2	H-2	G-5,7
Cresol, Cresylic Acid		Note 3	F-1,2	C-2	H-4	G-1,5,9
Cuprous Chloride			F-9		H-9	J. 222.A
Cyclohexanol			F-9,18		H-9	G-10
Cyclohexanone		70	F-1,2	C-2		G-5
Decalin			F-9	0.000	H-9	8661 07
Detergents			F-1,2,17	C-1	H-1	G-1,5,6,10
Dextrin			F-9		H-9	CC. C45. CC 47. TC
Dextrose			F-1,2,9	C-1,2	H-1,2,4,9	G-2,3,5,6,9,10,13
Diazo Salts		.0	F-9	100	H-9	le aletetatatata
Diacetone Alcohol			F-1,2,17	C-1	H-1	G-1,5,6,10

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Filter Media:					Container Mate	erial:	
F-1 - Rayon		F-13 - Phenolic	: Resin Pleated		C-1 - Steel		
F-2 - Cotton		Paper (7	2 (A) (A) (A) (A)		C-2 - Stainless Steel		
F-3 - Acetate					C-4 - Rubber Lined		
		F-15 - Polyeste F-17 - Phenolic			C-4 - Rubber Lined C-5 - Special (Kynarl, PVC,		
F-5 - Orlon (Acrylic)							
F-6 - Nylon		100 miles	1/2" Diameter)		Fluoroshic		
F-7 - Glass Fiber		F-18 - PCC			C-6 - Carpenter	20	
F-9 - Polypropylene		F-19 - RBC			C-7 - Plastic		
F-10 - Cranite ^{FM} (Fullers Earth)		F-20 - Polymat	e		C-8 - Fiberglass	Reinforced Plastic	
F-11 - Rayon Cellulose		F-21 - Advanta	ge				
F-12 - Cotton Waste & Excelsion			Properties of Filter Media Materia	als Chart			
		0:		101			
% Concentration		Temp, F ⁿ	Filter Media	Container	Core	Gasket	
Dibromocholopropane	100 20 A	20000000	F-9	C-lwwaterC-2wo water		G-2,5,10	
Dibutyl Phthalate	Any	Note 3,8	F-1,2		H-9,12	G-1,4,5,9	
Dibutyl Phthalate	Any	150	F-9		H-9,12	G-1,4,5,9	
Dichloroethylene		Note 11	F-1,2,6,9,19	(B) (C) (C) (C)	H-1,13	G-1,4	
Diethanolamine		Note 3	F-1,2,6,9,15,20,21		H-1,13	G-2,3	
Diethylene Glycol		Note 2	F-1,2,9,17,18,21		H-I	G-1,2,3,6,9	
Diglycolic Acid		100000000000000000000000000000000000000	F-9		H-9		
Diisooctyl Phthalate			F-9		H-9		
Dimethyl Fluoride		Note 2	F-5		H-4	G-5	
Dimethyl Formamide	100%	150	F-7,9,18,21	The state of the s	H-2,4,9,12	G-4,5	
Dimethyl Formamide	50%	70	F-7.9.18.21		H-2,4,9,12	G-4.5	
Dimethyl Phthalate	Any	Note 2	F-1,2,17,19	5 B. O. G. C.	H-1	G-5,6,9,10	
Dimethyl Terephthalate	Any	290	F-7		H-2,4	G-5	
Diphenyl Oxide	8890	70	F-2.9	1 10000000	H-1,2,4,9	G-5.9	
Dioctyl Phthalate	100%	70	F-1,2,9,15		H-1	G-6,9,10	
Dioxane	100%	70	F-1,2,9,13 F-15		H-2,4	G-5,6,10	
Emulsifiers	10076	100	F-9		H-9	G-5,0,10	
		Note 2	F-1,2,17		H-4	0.5510	
Epichlorohydrin		, 0000 00000		100000000000000000000000000000000000000	Color	G-5,6,10	
Ethanolamine		70	F-1,9		H-1,2,4,9	G-5	
Ether			F-1,2,9,15,17,19		H-2,9,12	G-1,5	
Ethyl Acetate		150	F-1,2,9,15,17,18,19		H-2,4,9,12	G-1,4,5,6,10	
Ethyl Acrylate		70	F-2		H-4	G-1,5	
Ethyl Alcohol		220	F-1,2,9,15,17,18,19,21		H-1,2,9,12	G-1,2,3,6,7,10,1	
Ethyl Cellulose		70	F-9,20		H-2,4,9	G-5	
Ethyl Chloride		Note 3	F-1,2		H-1,2,4	G-2,3,6,9,10	
Ethyl Ether		500	F-1,2,9,15,17,18,19,20,21		H-2,9,12	G-1,5	
2 Ethylhexl Acrylate		70	F-2		H-4	G-1,5	
Ethylene	Liquid Gas	Note 3	F-1,2		H-2,4	G-1,5,8	
Ethylene Amine			F-9		H-9		
Ethylenediamine	100%		F-1,2,9,17	C-1,2	H-2,9,12	G-2,3,5,6,10	
Ethylene Dichloride	71		F-1,2,18,20,21	C-1,2	H-2,4,9,12	G-5,9	
Ethylene Glycol	Any	Note 2	F-1,2,9,13,18,19,20,21	C-1	H-1,13(70°)	G-1,2,3,4,5,6	
Ethylene Oxide	100%	50	F-1,2,17,18,19		H-2,4	G-1,5	
Fatty Acids	Any	Note 2,8	F-1,2,5,9,15,17		H-2,4,9,12	G-2,5,9	
Ferric Ammonium Sulfate	Any	70	F-9,15		H-9,12	G-2,3	
Ferric Chloride	25%	Note 2,8	F-5,7,9,15		H-9,12	G-1,2,5,6,9,10	
Ferric Chloride	70%	100	F-5,7,9,15,18,20,21		H-9,12	G-2,5,6,9,10	
erric Nitrate	Any	Note 3,8	F-9.15		H-2,4,9,12	G-2,3,5,6,9,10	
Ferric Potassium Sulfate	Any	Note 3	F-7,15	A BOTTON COLUMN	H-4	G-2,3,5	
Ferric Sulfate	Any	Note 3,8	F-7,15,18,21		H-4	G-2,3,5	
Ferrous Chloride	Ally	70	F-6,9,15		H-9,13	0-4,5,5	
		100	F-2,10		H-1	G-5,6,9,10	
Firquel		70					
Fish Oils Floor Wax		70	F-1,9 F-9		H-1,2,4,9 H-9	G-2,5,6	

Core Material & Band Ring for Bags:	Gasket Material:	
H-1 - Tinned Steel	G-1 - Asbestos Substitute	G-10 - Ethylene Propylene (EPM, EPR & EPDM)
H-2 - 304 Stainless Steel	G-2 - Buna N	G-11 - Hypalon ³
H-4 - 316 Stainless Steel	G-3 - Neoprene	G-12 - Cork
H-9 - Polypropylene	G-4 - Plant Fiber	G-13 - Silicone
H-10 - Passivated 316 Stainless Steel	G-5 - Teflon ³	See page 16 for Properties of Gasket Materials Chart
H-12 - Glass Filled Polypropylene	G-6 - Butyl Rubber	A Pennwalt trademark
H-13 - Nylon	G-7 - Buna N FDA (Tasteless, Odorless, Non-Toxic)	2A W.L. Gore & Associates trademark
	G-8 - Natural Rubber	3A Du Pont trademark
	G-9 - Viton	

% Concentration		Temp, F"	Filter Media	Container	Core	Gasket
Fluosilie Acid		70	F-1,9	C-2	H-9	G-5,6
Formaldehyde	10%	70	F-7,9,15,20	C-2,4	H-2,4,9,12	G-2,3,5,6,10
Formalin	40%	377000	F-1.9	C-2	H-2,4,9	G-5
Formic Acid	Any	Note 2.8	F-5,7,9,15,18,20,21	C-2.6	H-4.9.12	G-2,3,5,13
Freon 11	Any	Note 3.8	F-1,2,15,18,20,21	C-2	H-1,2,4	G-9.11
Freon 12	Any	Note 3,8	F-1,2,15,18,19,20,21	C-2	H-1,2,4	G-2,3,9,11
Freon 22	Any	Note 3,8	F-1,2,15,18,19,20,21	C-2	H-1,2,4	G-1,3,5,6,10
Freon Ethylene Oxide Mixture	12/88	-30	F-1,2,20,21	C-2	H-2	G-5
Fructose	12:00	-50	F-9		H-9	9.9
Fruit Juices		70	F-1.9	C-2	H-9	G-2,3,5,6,9,13
Fuel Oils		70	F-1,2,6,7,9,15,17,19	C-1,2	H-1,2,9	G-2,3,4,5,9
Furfural	Any		F-2,9,19	C-1,2	H-1	G-5
Galic Acid	Any		F-9	C-1	H-9	0-5
Gas, Mfg., Natural			F-1,2,17	C-1	H-1,3	01224
				C-1		G-1,2,3,4
Gear Box Oil	941007	NT-1- 2-2	F-9	0.2	H-9	C 5 2 7 2 7 2
Gelatin	Any	Note 2,8	F-1,2,3,15,17	C-2	H-2,4	G-2,3,7,9,10
Glucose			F-9		H-9	
Glue	/////	. And the same	F-9	0500000	H-9	14.01 14.01 14.01 14.01 15.00
Glycerin	100%	Note 2,8	F-1,2,13,17,18,21	C-1,2	H-1,2,4	G-1,2,3,7,13
Glycol			F-6,9		H-9,13	
Glycol Monoether		70	F-1,9	C-2	H-2,4,9	G-2,3,5,9,10
Glycol Solvents		Note 2,3	F-1,2,9	C-1	H-1	G-1,5,9
Glycolic Acid			F-9		H-9	- 2000000000000000000000000000000000000
Green Soap Solution		70	F-9		H-9	G-5,6,9,10
Green Sulfate Liquors			F-9		H-9	G-5,6,9,10
Gum Arabic	Any	Note 3	F-1,2	C-2	H-2	G-3,4,5
Helium Gas	**********	01/02/1699	F-1,2,17,18,19,21	C-1	H-1	G-2,3,6,9,10,13
Heptane			F-1,2,17,18,21	C-1	H-1	G-2,9,13
Hexadecyl Alcohol			F-9		H-9	121.275475
Hexane			F-1,2,6,7,9,15,18,20,21	C-1.2	H-1,2,4,9,13	G-2,3,5
Hexanol Tertiary			F-9	- 1,2	H-9	
Honey			F-2	C-2	H-2,4	G-2,3,5,9,10
Hydraulic Oils (Phosphate Ester)		Note 2	F-1.2.6.10.11.18.20.21	C-1	H-2.13	G-2,6,9,13
Hydraulic Oils (Skydrol 500)		Note 2	F-1,2,10,17,18,20,21	C-1	H-1	G-6,10
Hydrolubes		Note 2	F-13	C-1	H-1	G-2.5.9.10
Hydrazine		INCIG Z	F-7,18,21	C-2	H-4	G-3,5,6,9,10
Tydrobromic Acid	50%	140	F-9,18,21	C-5	H-12	G-5,5,6,9,10
		150	7 (V 2 (2) (2) (2) (2)	C-4,5	#12 TOTAL DAS	P. 1972 Chr. 17.17
Hydrochloric Acid	20%	160	F-5,7,9,15	C-4,5	H-4,9,12	G-1,5,9
Hydrochloric Acid	5%	1000	F-7,9,19	0.45	H-9	G-2,3,5,6,9,10
Hydrochloric Acid	35%	Note 3,8	F-5,7,9	C-4,5	H-4,9,12	G-1,5,9
Hydrochloric Acid	10%		F-9,20,21		H-9	
Hydrochloric Acid (Wet)		70	F-7	C-5	H-1	G-5
Hydrochloric Acid	Any	Note 3,8	F-7,9,15	C-2,5	H-4,9,12	G-5,6,9,10,11
Hydrofluoric Acid	48%	Note 3,8	F-5,9	C-4,5	H-9,12	G-5
Hydrogen Chloride			F-9		H-9	

Key for Selection Guide Filter Media:				Container Mate	rial:
F-1 - Rayon	F-13 - Phenolic	Resin Pleated		C-1 - Steel	
F-2 - Cotton	Paper (7	Particular de properties	C-2 - Stainless Steel		
F-3 - Acetate		A CONTROL OF THE PROPERTY.			
	F-15 - Polyeste			C-4 - Rubber Li	0.000
F-5 - Orlon (Acrylic)	F-17 - Phenolic			C-5 - Special (K	
F-6 - Nylon	Paper (2	1/2" Diameter)		Fluoroshi	eld ² , etc.)
F-7 - Glass Fiber	F-18 - PCC			C-6 - Carpenter	20
F-9 - Polypropylene	F-19 - RBC			C-7 - Plastic	
F-10 - Cranite TM (Fullers Earth)	F-20 - Polymat	e		C-8 - Fiberglass	Reinforced
F-11 - Rayon Cellulose				Plastic	remotecu
	F-21 - Advanta		CONTRACTOR OF	Plastic	
F-12 - Cotton Waste & Excelsion	See page 16 to	Properties of Filter Media Materi	als Chart	1	
% Concentration	Temp. Fo	Filter Media	Container	Core	Gasket
Hydrogen Cyanide		F-9		H-9	
Hydrogen Fluoride		F-9	OCADA	H-9	CHINAC
Hydrogen Peroxide		F-7,9,20,21	C-2,6	H-2,4,9,12	G-5,9
Hydrogen Phosphide		F-9		H-9	
Hydrogen Sulfide (Dry)	150	F-9,15	C-1,2	H-1,2,12	G-5,6,10
Hydrogen Sulfide (Wet)	150	F-9.15	C-2	H-4.12	G-5,6,10
Hydroquinone	Note 3.8	F-1,2,9,15	C-2	H-2,4,9,12	G-5.9
Hypochlorous Acid	1000	F-9	105050	H-9	185×15/500
Igepal		F-9		H-9	
nks		F-19	C-2	H-1	G-5
lodine		F-19	C-2	H-9	G-9
				10.00 miles	A 100 miles (100 miles
Insulating Oils - Askarel	Note 2	F-10	C-1	H-1	G-2,9
Insulating Oils - Petroleum Type	454,00000	F-1,2,10,13	C-1	H-1	G-1,2,3,4,9,12
Isobutyl Alcohol (Isobutanol)	Note 3	F-1,2,6,15,17,18,21	C-1	H-1,13	G-1,3,4,5,6,9,10,1
Isopropyl Alcohol (Isopropanol)	150	F-1,2,6,9,15,17,20,21	C-1	H-1,12,13	G-1,3,4,5,6,9,10,1
Isophorone	150	F-2	C-1	H-1	G-1,5
Kerosene		F-1,2,6,9,15,18,19,20,21	C-1,2	H-1,2,4,9,13	G-2,4,5,6,9
Ketchup	70	F-2.9	7	H-9	G-2,5,6,9
Ketone Solvents	Note 2.3	F-1,2	C-1	H-1	G-1,5
Lacquer (Unpigmented)		F-1.2	C-1	H-1	G-1,4,5,6,12
Lacquer Thinner	4	F-1.2	C-1	H-1,2,4	G-1,4,5,6,12
Lactic Acid	Note 3,8	F-5,7,9,15,19	C-4,6	H-4,9,12	407 (COLUMN DE PROPERTO)
	INGIE 5,6	F-9	C+4,0	A CONTRACTOR OF THE PARTY OF TH	G-1,5,9
Lanolin		TOTAL CONTRACTOR OF		H-9	C 2 5 10
Lard	A 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F-1,2,6,9,15,19	C-2	H-1,2,4,9,13	G-2,5,10
Latex	Note 3,8	F-1,2,9,17	C-1	H-1,9,12	G-1,3,4,5
Lauric Acid		F-9		H-9	
Lead Acetate		F-6,9,15		H-9,13	
Lestoil		F-9		H-9	
Lime - Sulfur	70	F-2,9	22412	H-4,9	G-3,5,6,9,10,13
Linoleic Acid	100	F-2,9,19	C-4	H-4,9	G-5
Linseed Oil	Note 2,8	F-1,2,9,15,19	C-1,2	H-1,9,12	G-1,2,3,4,5,9,11
Lithium Bromide 65%		F-1,2,9,17	C-1	H-1	G-3,5
Lithium Carbonate	70	F-9	5050	H-9	G-5
Lithium Chloride	200	F-1,2,6,15	C-1,2	H-1,2,4,13	G-2
Lithium Hydroxide	70	F-2,9	C-2	H-1,2,4,9	G-2,5,10
Liquors, Liqueurs	100	F-2,9	L-2	H-9	0-2,5,10
			0.12	TOTAL CONTRACTOR OF THE PARTY O	0.2450
.ube Oil		F-1,2,6,7,18,19,21	C-1,2	H-1,2,4,13	G-2,4,5,9
Lye		F-6,9	C-2	H-2,4,9,13	G-5,6,10
Machine Oils		F-9		H-9	
Magenta Dye 2%		F-9		H-9	
Magnesium Carbonate		F-9		H-9	0
Magnesium Chloride	70	F-1,2,6,9,15,19	C-2	H-4,9,13	G-2,3,5,6,9,10,13
Magnesium Hydroxide	70	F-1,2,9	C-2	H-4,9	G-5,6,9,10
Magnesium Nitrate	78	F-9	8	H-9	

Core Material & Band Ring for Bags:	Gasket Materi	al:				
H-1 - Tinned Steel	G-1 - Asbestos		G-10 - Ethyle	ne Propylene (EPM	L EPR	
I-2 - 304 Stainless Steel	Stainless Steel G-2 - Buna N		& EP	A Control of the Cont	10.000.00	
I-4 - 316 Stainless Steel		rit.	G-11 - Hypalon'			
H-9 - Polypropylene	G-4 - Plant Fil		G-12 - Cork	OII		
H-10 - Passivated 316 Stainless Steel	G-5 - Teflon	CI .	G-13 - Silicon			
		11		W 100 Uh 20000		
H-12 - Glass Filled Polypropylene	G-6 - Butyl Ru				sket Materials Chart	
H-13 - Nylon		FDA (Tasteless, Odorless, Non- Toxic)	A Pennwalt		2001.020	
	G-8 - Natural l	Rubber		& Associates trade	emark	
	G-9 - Viton		3A Du Pont ti	rademark		
% Concentration	Temp. F°	Filter Media	Container	Core	Gasket	
Agnesium Sulfite	remp r	F-9	Contamer	H-9	Gasket	
Maleic Acid		F-9		H-9		
Malic Acid		F-9		H-9		
Maple Syrup		F-9		H-9		
Mayonnaise	70	F-1,2,9	C-2	H-4.9	G-3.5,7,6,9,13	
Melamine Resins	70	F-1,2,9	0.72	H-9	G-2,5,9	
Aercuric Chloride 10%	70	F-1,2,9,15		H-9	G-2,3,5,6,9	
Mercuric Cyanide 10%	17.00	F-9,2,9,13		H-9	4.2,2,2,0,9	
Mercury		F-6,9,15	C-1,2	H-9,15	G-2,5,9,10	
Mercurochrome		F-9,9,13	C-1,2	H-9,15	0-2,5,7,10	
Mercurous Nitrate		F-9	C-1,2	H-1,2,4,9	G-2,5,10	
Methane		F-1,2,9,15,17,21	C-1,2	H-1,2,9,12	G-1,2,3,5,9	
Methyl Acrylate	70	F-2,17	C-2	H-4	G-1,3,5,6,10	
Methyl Alcohol	150	F-1,2,6,9,15,17,18,19,21	C-1	H-1,12	G-1,2,3,4,6,10	
Methyl Cellosolve	Note 2,8	F-1,2,0,5,15,17,18,19,21	C-1.2	H-2,6,9,12	G-5,6,10	
Methyl Chloride	INOIE 2,6	F-1,2,15,17	C-1,2 C-2,6	H-2,4	G-1,5,9	
Methyl Ethyl Ketone	150	F-1,2,9,15,17,18,20,21	C-2,6	H-1.12	G-1,4,5,6,10	
	139	F-9	C-1	H-9	G-1,4,5,0,10	
Methyl Isobutyl Carbinol Methyl Isobutyl Ketone	150	F-1,2,9,15,17,18,20,21	C-1	H-1,12	G-1,4,5,6,10	
Methylene Chloride	130	F-1,2,5,17,18,20,21	C-2,6	H-2.4	G-1,4,5,0,10 G-1,5,9,10	
Methyl Salicylate	_	F-1,2,13,17,18	C-2,6	H-2,4	G-5,6,10	
		F-9	C-2	H-9	G-5,0,10	
Methyl Sulfuric Acid Milk	70	F-1,2.9	C-1,2	H-1,2,4,9	G-2,3,6,9,10,13	
dineral Oil	70	F-1,2,7,6,9,19	C-1,2 C-2	H-2,4,9,13	G-2,4,5,9	
	150		C-2 C-1	Dw. 3 (2002) (2003) (2003)		
Aineral Spirits Aolasses	Note 2	F-1,2,9,15,19 F-1,2,17	C-1,2	H-1,12 H-1,2	G-1,4,5,6,10 G-3,4,7	
Aonoethanolamine	Note 2 Note 3	4 DO A 5 SECONO CON C	C-1,2 C-1,2	H-1,2 H-1.2	G-5,6,10	
Monoethanolamine 35%	200	F-1,2,20,21	C-1,2 C-1	130 C 400 C	G-5,6,10 G-6	
Aotor Oil 35%	200	F-1,2 F-9	C-1	H-1 H-9	0-6	
Austard	70	F-1,2,9	C-1,2	H-9	G-7,5,9	
aptha	70	F-1,2,6,7,19	C-1,2	H-1,2,4,13	G-5,9	
iapthalene	Note 2,8	F-1,2,9,15 F-1,2,9,15	C-1,2 C-1	H-1,2,4,13 H-1,9,12	G-4,5,9	
Vapthalene	70.	F-1,2,9,15 F-1,2,6,9,15,19	C-1	H-1,9,12	G-4,5,9	
latural Gas	70.	F-1,2,9,17	C-1	H-1,9,12,13	G-2,3,5,6,9,10	
lickel Acetate		F-1,2,9,17 F-9	C-1	H-1,2 H-9	0-2,3,3,0,9,10	
lickel Chloride Any	Note 2,8	F-5,7,9,15,17	C-4,5,6	H-4,9,12	G-1,2,3,5,6,9,10	
	150		C-4,5,6 C-4,5,6			
fickel Chloride 5% fickel Nitrate	130	F-1,2,9,15,17 F-9	C-4,3,0	H-4,9,12	G-1,2,3,5,6,9,10	
	Note 2.9	10.000	C 456	H-9	0.12255010	
lickel Sulfate Any	Note 2,8	F-5,7,9,15	C-4,5,6	H-4,9,12	G-1,2,3,5,6,9,10	
lickel Sulfate 5%	150	F-1,2,5,7,9,15,17	C-4,5,6	H-4,9,12	G-1,2,3,5,6,9,10	
licotine		F-9 F-9		H-9		
Victoric Acid	70		0.0	H-9	0.5010	
Vitric Acid 10%	70	F-7,9,15	C-2	H-2,4	G-5,9,10	
Nitrie Acid 10%	200	F-9,19	C-2	H-2,4	G-5,9,10	
Vitric Acid 20%	215	F-7	C-2	H-2,4	G-5,9,10	

.

Key for Selection Guide Filter Media:					Container Mate	rial:	
-1 - Rayon		F-13 - Phenolic	Resin Pleated		C-1 - Steel		
-2 - Cotton		Paper (7			C-2 - Stainless Steel		
-3 - Acetate		F-15 - Polyeste	Misconnectical program.		C-4 - Rubber Lined		
-5 - Orlon (Acrylic)		F-17 - Phenolic					
					C-5 - Special (K		
-6 - Nylon		the state of the s	1/2" Diameter)		Fluoroshie	5401.0	
-7 - Glass Fiber		F-18 - PCC			C-6 - Carpenter	20	
-9 - Polypropylene		F-19 - RBC			C-7 - Plastic		
-10 - Cranite™ (Fullers Earth)		F-20 - Polymat	e		C-8 - Fiberglass	Reinforced Plastic	
-11 - Rayon Cellulose		F-21 - Advanta	ge				
-12 - Cotton Waste & Excelsion			Properties of Filter Media Mater	rials Chart			
721 / V		le ro	les v. r	In	le.	lo t.	
Concentration litric Acid	30%	Temp. F ^o	Filter Media F-7	Container C-2	Core H-4	Gasket	
		100000000000000000000000000000000000000		5050000	The second second	G-5,9,10	
litric Acid	50%	100	F-5,7,9	C-2,6	H-4	G-5,9	
litric Acid	60%	70	F-9	C-2	H-2,4	G-5,9,10	
litric Acid	65%	100	F-7	C-2	H-4	G-5,9	
litric Acid	Furning	125	F-7	C-2	H-2,4	G-5	
litrobenzene	70%	100	F-1,2,9,15	C-1	H-2,4	G-5,9	
litrobenzene	10%	200	F-1,2,6,9,15,19	C-2	H-2,4,13,12	G-5	
litrogen Gas		Note 2,8	F-1,2,9,15,17,18,20,21	C-1	H-1,9,12	G-1,2,3,4,5,6,13	
litrogen Oxide		The state of the s	F-1,2	C-2		G-5	
Octyl Alcohol		160	F-1,2,9,15	C-1	H-1	G-1,2,3,4,6,10	
il, Crude			F-1,2,5,6,9,15,19	C-1,2	H-1,2,4,9,13	G-5,8	
Dleic Acid	Any	100	F-1,2,9,15	C-2,4,5	H-4,9,12	G-5,9	
lleic Acid	Any	Note 2,8	F-7,9,15	C-2,4,5	H-4,9,12	G-5,9	
Deomargarine			F-9		H-9		
Dleum		100	F-7	C-2	H-4	G-5.9	
Dlive Oil		70	F-1,2,9,19		H-2,4,9	G-2,5,9,13	
Prange Juice		1	F-9		H-9	0.200,000	
Oxalic Acid	Any	Note 2.8	F-7,9,15,19,20	C-2,5,6	H-2,4,9,12	G-1,3,5,9,10	
Oxygen		200	F-7,20,21	C-1,2	H-4	G-3,5,6,9,10	
Dzone		200	F-20,21	C-1,2	11-4	G-9,10,13	
aint		1	F-19	C-1,2	H-1	G-5,9	
alm Oil		70	F-1,2,9	C-1,2 C-1,2	H-2,4,9	G-2,5,9	
almitic Acid		70	F-9	C+1,2	H-9	0-2,5,9	
40.400 May 4 May 200 - 1		N7-4- 0		e i	1000 F 300 July 1	0.50	
araffin		Note 2	F-1,2,10	C-1	H-1,2	G-5,9	
araffin Wax			F-9	0.0	H-9	0.550	
entane			F-2,6,7,20,21,19	C-2	H-1,2,4,13	G-2,5,9	
erchloroethylene		Note 2	F-1,2,6,9,13,15,18,19	C-1	H-1,2,4,13	G-1,4,5,9	
etroleum Products							
viation Gas			F-1,2,13,15,21	C-1	H-1	G-1,2,4,5,9	
Piesel Fuel			F-1,2,10,13,15,21	C-1	H-1	G-1,2,4,5,9	
ngine Lube Oil HD		Note 2	F-1,2,11,12,13	C-1	H-1	G-2,3,4,9	
ngine Lube Oil - Straight Mineral		Note 2	F-1,2,10,11,12,13	C-1	H-1	G-2,3,4,9	
iasoline			F-1,2,13,15,19	C-1	H-1	G-1,2,4,5,9	
etroleum Ether			F-1,2,5,6,7,18,19	C-1,2	H-1,2,4,13	G-5,9	
lydraulic Oil - Additive		Note 2	F-1,2,11,12,13	C-1	H-1	G-2,3,9	
ydraulic Oil - Straight Mineral		Note 2	F-1,2,10,11,13	C-1	H-1	G-2,3,9	
et Fuel		Note 1	F-1,2,10,13,15	C-1	H-1	G-1,2,4,5,9	
uench Oils		Note 2	F-1,2,10,11,12,13	C-1	H-1	G-2,3,4,5,9,12	
oluble Cutting Oils		Note 2	F-1,2,13	C-1	H-1	G-2,3,4,5,9,12	
olvents		Note 2	F-1,2,10,12,13,15	C-1	H-1	G-1,2,4,5,9	
iscous Oils		200	F-13	C-1	H-1	G-2,3,4,5,9	
henol (Carbolic Acid)	Any	Note 2,8	F-1,2,7,9,15,20	C-2	H-2,4,9,12	G-5,9	
henol Formaldehyde Resins	ruly	1000 2,0	F-1,2,7,9,13,20 F-1,2	C-1	H-1	G-5,9 G-5,9	
hosphoric Acid	Ame	0-180	F-9,20	C-2	н-1 H-9	G-5,9	
hosphoric Acid	Any	200	F-7	C-2,6	H-4	G-5,9 G-5,9	
riosphoric Acid Free of Soluble Fluorides)	Any	200	E-7	C-2,0	11-4	0.5,5	

Core Material & Band Ring for Bags:	Gasket Material:	
H-1 - Tinned Steel	G-1 - Asbestos Substitute	G-10 - Ethylene Propylene (EPM, EPR & EPDM)
H-2 - 304 Stainless Steel	G-2 - Buna N	G-11 - Hypalon ³
H-4 - 316 Stainless Steel	G-3 - Neoprene	G-12 - Cork
H-9 - Polypropylene	G-4 - Plant Fiber	G-13 - Silicone
H-10 - Passivated 316 Stainless Steel	G-5 - Teflon ³	See page 16 for Properties of Gasket Materials Chart
H-12 - Glass Filled Polypropylene	G-6 - Butyl Rubber	A Pennwalt trademark
H-13 - Nylon	G-7 - Buna N FDA (Tasteless, Odorless, Non-Toxic)	² A W.L. Gore & Associates trademark
	G-8 - Natural Rubber G-9 - Viton	³ A Du Pont trademark

% Concentration		Temp F .	Filter Media	Container	Core	Gasket
Photographic Solutions		- 1				
Ferric Cyanide Bleach		Operating	F-1,2	C-2,4	H-4,9,12	G-2,3
Acid Stop Bath		Operating	F-1,2,17	C-2,4	H-4,9,12	G-2,3
Developer		Operating	F-1,2,17	C-2.4	H-4,9,12	G-2,3
Fixer		Operating	F-1,2,17	C-2,4	H-4,9,12	G-2,3
Rinse Water			F-3,17	C-2	H-2,4,9,12	G-2,3
Pickling Brine (Food)		Note 2	F-1,2,17	C-2	H-4	G-7
Pine Oil		70	F-1,2,6,9,15,19	C-2	H-2,4,9,13	G-2,5,9
Phthalic Acid		3 (4.5)	F-9	1600	H-9	**************************************
Pierie Aeid			F-9		H-9	
Plating Solutions					T	
Arsenic		150	F-1,2,9,17	C-1	H-12	G-1,5,6,10,11
Brass Cvanide		150	F-1,2,9,17	C-1	H-12	G-1,5,6,10,11
Bronze Cyanide		80	F-1,2,9,15,17	C-1	H-9,12	G-1,5,6,10,11
Cadium Cyanide		100	F-1,2,9,15,17	C-1	H-9,12	G-5,6,10,11
Cadium Fluoborate		100	F-9	C-4	H-4.9.12	G-8
Chrome		145	F-5,9	C-6	H-4,12	G-5.9
Copper-Acid		120	F-9	C-4	H-4,9,12	G-8
Copper-Fluoborate		170	F-9		11 1,0,0,0	0.0
Copper-Cyanide		100	F-1,2,9,17	C-1	H-9,12	G-5,6,10,11
Gold Cyanide		160	F-1,2,9,15,17	C-2	H-4.12	G-1,5,6,10,11
Gold Fluoborate		150	F-9	C-4	H-4.12	G-8
Indium Alkaline		80	F-2.9	C-1,2,6	H-4,12	G-1,5,6,10,11
Indium Fluoborate		80	F-9	C-4	H-4,9.12	G-8
Platinum		205	F-2,9	C-2	H-4	G-8
Potassium Bromide	Any	150	F-9.15	C-6	H-12	G-5.9
	Any 10	180		C-1.2	H-2.4.12	G-3,9 G-1,2,3,5,6,9,10,11
Potassium Carbonate Potassium Chloride		Note 2,8	F-1,2,9,15,17	C-2,6		
	Any		F-1,2,9,15,17 F-7		H-4,9,12	G-1,2,3,4,5,6
Potassium Chromate	Any	Note 3,8 200		C-2,4	H-4 H-4	G-2,3,5
Potassium Cyanide	Any		F-2,6,9,15	C-1,2,6	man a	G-1,2,3,5,6,9,10,11
Potassium Dichromate	Any	200	F-9,15	C-1	H-2,4	G-3,6
Potassium Ferricyanide		Note 3,8	F-1,2,9,15	C-2	H-4,9,12	G-5,9
Potassium Ferrocyanide	Any	200	F-9,15	C-2	H-4	G-5,9
Potassium Hydroxide	Any	100	F-9	C-1,2	H-2,4,9,12	G-1,5,6,10,11
Potassium Hydroxide	Any	235	F-6	C-1,2	H-2,4	G-1,5,6,10,11
Potassium Iodide			F-9		H-9	
Potassium Nitrate			F-9		H-9	
Potassium Perborate			F-9		H-9	
Potassium Perchlorate			F-9		H-9	0.000000
Potassium Permangate	5%	70	F-1,3,9,15	C-2	H-1,2,9,12	G-5,9
Potassium Permangate	20%		F-9		H-9	
Potassium Persulfate		100	F-9	5 1155	H-9	35.5725.07300
Potassium Sulfate	5%	70	F-1,2,6,9,15	C-1,2	H-2,4,9,13	G-2,3,5,9,10
Potassium Sulfide		///	F-9	10.0	H-9	
Potassium Sulfite			F-9		H-9	-
Potassium Thiocyanate			F-1,2,15	C-2	H-4	G-1,2,5
Primol D			F-9		H-9	2000
Propane			F-1,2,15,19	C-1	H-1.2.9	G-1,2,3,4,5

Key for Selection Guide

Filter Media:		Container Material:
F-1 - Rayon	F-13 - Phenolic Resin Pleated	C-1 - Steel
F-2 - Cotton	Paper (718 size)	C-2 - Stainless Steel
F-3 - Acetate	F-15 - Polyester	C-4 - Rubber Lined
F-5 - Orlon (Acrylic)	F-17 - Phenolic Resin Pleated	C-5 - Special (Kynar ¹ , PVC,
F-6 - Nylon	Paper (2 1/2" Diameter)	Fluoroshield ² , etc.)
F-7 - Glass Fiber	F-18 - PCC	C-6 - Carpenter20
F-9 - Polypropylene	F-19 - RBC	C-7 - Plastic
F-10 - Cranite [™] (Fullers Earth)	F-20 - Polymate	C-8 - Fiberglass Reinforced
F-II - Rayon Cellulose	F-21 - Advantage	Plastic
F-12 - Cotton Waste & Excelsior	See page 16 for Properties of Filter Media Materials Chart	

% Concentration		Temp. F ^o	Filter Media	Container	Core	Gasket
Propargyl Alcohol			F-18			G-2,3,9,10,13
Propionic Acid		70	F-1,2,6,9,15	C-2	H-4,9,13	G-5
Propyl Alcohol (Propanol)		150	F-1,2,6,9,15,17,21	C-1	H-1,9,13	G-1,2,3,4,6,10
Propylene Carbonate		70	F-1,2	C-1	H-1	G-5
Propylene Dichloride			F-18,20		557795-771	G-9
Propylene Glycol		70	F-1,2,6,9,18,20,21	C-2	H-4,9,13	G-2,5,9,10,13
Propylene Oxide	100%	50	F-1,2	C-2	H-2,4	G-5
Pyridine	100%	70	F-9,15	C-2	H-2,4	G-6,10
Resins		1000	F-19	C-1	H-1	G-5
Rhodium Acid		150	F-9,15	C-4	H-4,9,12	G-8
Rice Bran Oil			F-9	1	H-9	
Rosin, Light			F-9		H-9	
Rum			F-1,2,17	C-2	H-2	G-2.3.7
Salt Water		Note 2,8	F-1,2,3,6,7,9,15,17,19,20,21	C-4	H-4,9,12,13	G-1,2,3,5,6,9,10,13
Salenic Acid		1	F-9		H-9	The state of the s
Salievlic Acid			F-9		H-9	
Shampoo			F-9		H-9	
Shave Lotion		Note 2.8	F-1.2.9.15.17	C-1.2	H-1,2,9,12	G-3,4,7
Shellac		70	F-1,2,9	C-1,2	H-2,4,9	G-2,3,5,10
Shoe Polish		1	F-9	10.10	H-9	S-201010
Silicone Oil			F-9		H-9	
Silver Cyanide			F-9		H-9	
Silver Nitrate	30%	200	F-7.9	C-2	H-2.4	G-3.5.7.9.10.11
Silver Nitrate	Any	Note 2,8	F-7,9,15	C-2	H-2,4,9,12	G-3,5,7,9,10,11
Soda Ash		70	F-1,2,5,6,9,15,19	C-2	H-2,4,9,12	G-2,3,5,6,9,10,13
Soap Solution (Concentrated)		1000	F-9	1	H-9	
Sodium Acetate		70	F-1,2,5,9,15	C-1,2	H-2,4,9	G-4,5,10
Sodium Benzoate		1000	F-9		H-9	Section 14
Sodium Bicarbonate	Any	Note 2,8	F-1,2,9,15,17	C-1,2	H-2,5,9,12	G-1,2,3,5,6,10,11
Sodium Bisulfate		70	F-9.15	C-2	H-9	G-2,3,5,6,9,10,13
Sodium Bisulfite		70	F-9.15	C-2	H-9	G-2.3,5,6,9,10,13
Sodium Borate		70	F-1,2.9	C-2	H-2.4.9	G-2,3,5,6,9,10,13
Sodium Bromide		125	F-1,2,5,9,15	C-2.6	H-4.12	G-5,9
Sodium Carbonate	Any	Note 2,8	F-1,2,9,17	C-1,2	H-2,4,9,12	G-1,2,3,5,6,9,10,11
Sodium Carbonate	10%	180	F-1,2,15,17	C-1,2	H-2,4,12	G-1,2,3,5,6,9,10,11
Socium Chlorate	Any	Note 3	F-7	C-2	H-2	G-5.9
Sodium Chloride	Any	Note 2,8	F-1,2,9,15,17	C-2,6	H-4,9,12	G-1,2,3,5,6,9,10,11
Sodium Chlorite	2%	Little 2,0	F-9		H-9	23 Almininininininini
Sodium Chlorite	5%		F-9		H-9	
Sodium Chlorite	10%	+	F-9		H-9	
Sodium Chlorite	20%		F-9		H-9	
Sodium Cvanide	2070	200	F-2,6,9,15,17	C-1,2,6	H-1,4	G-1,2,3,6,10,11
Sodium Cyamuc Sodium Dichromate		200	F-9	C-1,2,0	H-9	0-1,2,5,0,10,11
Sodium Ferricyanide		7.	F-9		H-9	b
Sodium Ferricyanide			F-9		H-9	-
Sodium Fluoride	Any	80	F-9.15	C-2	H-4.9.12	G-5.9
Sodium Hydrosulfide	45%		F-9,15	C-2	H-4,9,12 H-9	G-5,9 G-5,9
	5750000	100	F-9	C-1.2	17,735.5 (G-3,9 G-1,3,5,6,10,11
Sodium Hydroxide	Any	100	1-9	C-1,2	H-2,4,9,12	G-1,5,5,0,10,11

Core Material & Band Ring for Bags:	Gasket Material:	
H-1 - Tinned Steel	G-1 - Asbestos Substitute	G-10 - Ethylene Propylene (EPM, EPR
H-2 - 304 Stainless Steel	G-2 - Buna N	& EPDM)
H-4 - 316 Stainless Steel	G-3 - Neoprene	G-11 - Hypalon ³
H-9 - Polypropylene	G-4 - Plant Fiber	G-12 - Cork
H-10 - Passivated 316 Stainless Steel	G-5 - Teflon ³	G-13 - Silicone
H-12 - Glass Filled Polypropylene	G-6 - Butyl Rubber	See page 16 for Properties of Gasket Materials Chart
H-13 - Nylon	G-7 - Buna N FDA (Tasteless,	¹ A Pennwalt trademark
	Odorless, Non- Toxic)	² A W.L. Gore & Associates trademark
	G-8 - Natural Rubber	3A Du Pont trademark
	G-9 - Viton	

% Concentration		Temp. F°	Filter Media	Container	Core	Gasket
Sodium Hydroxide	Any	250	F-6	C-1,2	H-2,4,13	G-1,3,5,6,10,11
Sodium Hydroxide	1%	70	F-6,9,15	C-1,2	H-2,4,9,12,13	G-1,3,5,6,10,11
Sodium Hypochlorite	10%	200	F-5,9	C-4,5	H-4	G-5,9
Sodium Hypochlorite	Any	140	F-9	C-4,5	H-12	G-5,9
Sodium Hypochlorite	1/2%	200	F-2,9	C-2	H-2,9	G-5,9
Sodium Metaphosphate			F-9	1	H-9	
Sodium Nitrate	Any	Note 2,8	F-1,2,9,15,17	C-1,2	H-4,9,12	G-6,10,11
Sodium Perborate	1%	160	F-1,2,3,9,15,17	C-2	H-2,12	G-6,9,10
Sodium Phosphate		70	F-1,2,6,9,15	C-2	H-2,4,9,13	G-2,5,6,9,10
Sodium Polysulfide			100000000000000000000000000000000000000	C-2	H-2,4	G-5
Sodium Silicate	Any	Note 2,8	F-1,2,9,17	C-1	H-1,9,12	G-1,2,3,4,9,10,11
Sodium Sulfate	Any	Note 2,8	F-1,2,9,15,17	C-2	H-2,4,9,12	G-2,3,6,9,10,11
Sodium Sulfide	40%	140	F-1,2,9,17	C-2	H-4	G-2,3,5,6,9,10
Sodium Sulfide	Anv	Note 2	F-5	C-2	H-4	G-2,3,5,6,9,10
Sodium Sulfite			F-9		H-9	
Sodium Thiocyanate		Note 2,8	F-1,2,9	C-1,5	H-9,12	G-5
Sodium Thiocyanate	Any	70	F-1,2,9,15	C-1,5	H-9,12	G-5
Sodium Thiosulfate	Any	Note 2.8	F-1,2,9,17	C-2	H-4.9.12	G-1,2,3,5,6,9,10
Stannie Chloride	5%	70	F-1,2,5,6,7,9,15	C-4	H-9,13	G-2,5,6,9,10
Stannous Chloride	5%	70	F-1,2,6,9,15	C-1	H-4,9,13	G-2.3.5.6.9.10
Starch		70	F-1,2,9,15,19	C-2,4	H-4,9	G-2,3,5,6,9,10
Steam		220	F-2,5,6	C-1,2	H-2,4	G-1,5,9
Steam		200	F-2.5.6.19	C-1,2	H-2,4	G-1,5,9
Steam		275	F-5,6	C-1,2	H-2,4	G-1,5,9
Stearates		200	F-1,2,6,9,19	C-1.2	H-1,2,4,9	G-1,5,6,9,10,13
Stearic Acid	Any	200	F-1,2,9,15,17,18,19,20,21	C-2	H-2.4	G-1,2,3,5,6,10,11,13
Stoddard Solvents	23.10	70	F-1,2,6,9,15,18,19,20		H-9.13	G-2,5,9
Styrene		170	F-2,15	C-2	H-4	G-5,9
Sugar Solutions	Any	Note 2	F-1,2,9,17	C-2	H-2,4	G-7
Sucrose	ony	14040 2	F-9	C-2	H-9	017
Succinic Acid			F-9		H-9	
Sulfamic Acid			F-9		H-9	
Sulfate Liquors		70	F-9		H-9	
Sulfur Chlorite		70	F-9	C-2	H-9	G-5,9
Sulfur Dioxide (Wet)		70	F-7,9,15	C-2	H-4,9,12	G-5,6,10
Sulfur Dioxide (Wei)			F-5,7,9,19	C-2	H-4,9,12	G-5,6,10 G-5,6,10
Sulfuric Acid	10%	70		C-4,5,6	The second second second	G-1,5,9
		Note 3,8	F-5,7,9,15,19,20,21	C-4,5,6	H-4,9,12	
Sulfuric Acid	35%	01 014 0115 011 015 015 015 015 015 015 015 01	F-5,7,9,15		H-4,9,12	G-1,5,9
Sulfuric Acid	60%	Note 3,8	F-5,7,9,15	C-4,5,6	H-4,9,12	G-1,5,9
Sulfuric Acid	70%	Note 3,8	F-7,9,15	C-4,5,6	H-4,9,12	G-1,5,9
Sulfuric Acid	90+%	Note 3,8	F-7	C-4,5,6	H-4	G-1,5,9
Sulfuric Acid	Furning	Note 3	F-7	C-4,5,6	H-4	G-1,5,9
Sulfurous Acid	5%	100	F-1,2,19	C-5,6	H-4	G-1,5,9
Sulfurous Acid	Any	200	F-5,7,9	C-5,6	H-4	G-1,5,9
Tallow		70	F-9,19	1.0478	H-9	AND THE PROPERTY OF THE PARTY O
Tannic Acid	Any	100	F-1,2,9,15,17,19	C-2	H-2,4,9,12	G-1,2,5,6,9,10
Tannie Acid	Any	Note 2,8	F-7	C-2	H-2,4	G-1,2,5,6,9,10
Tartaric Acid			F-7,9	C-2	H-4,9	G-2,5,9,13

Liquatec®

Key for Selection Guide

Filter Media:		Container Material:
F-1 - Rayon	F-13 - Phenolic Resin Pleated	C-1 - Steel
F-2 - Cotton	Paper (718 size)	C-2 - Stainless Steel
F-3 - Acetate	F-15 - Polyester	C-4 - Rubber Lined
F-5 - Orlon (Acrylic)	F-17 - Phenolic Resin Pleated	C-5 - Special (Kynar ¹ , PVC,
F-6 - Nylon	Paper (2 1/2" Diameter)	Fluoroshield ² , etc.)
F-7 - Glass Fiber	F-18 - PCC	C-6 - Carpenter20
F-9 - Polypropylene	F-19 - RBC	C-7 - Plastic
F-10 - Cranite ^{DM} (Fullers Earth)	F-20 - Polymate	C-8 - Fiberglass Reinforced Plastic
F-11 - Rayon Cellulose	F-21 - Advantage	
F-12 - Cotton Waste & Excelsior	See page 16 for Properties of Filter Media Materials Chart	

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Геа			F-9		H-9	
Tetrachlorethylene (Dry)		200	F-1,2,6,7,19	C-1,2	H-1,2,4,13	G-4,5,9
Tetrachlorethane		70	F-1,2,6,7,9,15,19	C-2	H-2,4,13	G-9
fetrahydrofuran		- 3	F-1,2	C-1	H-1	G-5
l'in Acid		150	F-9	C-4	H-4.9.12	G-8
l'in Alkaline		190	F-6.9	C-1	H-4.13	G-1.5.6.10.11
l'in Fluoborate		100	F-9	C-4	H-4,9,12	G-8
Foluene	Any	200	F-1,2,5,6,7,18,19	C-1	H-1	G-1.4.5.9
Toluene Diisocyanate	1113	Note 3	F-1,2	C-2,5	H-4	G-5
Tomato Juice		i voic 5	F-9	(a)	H-9	0.5
Fransformer Oil			F-9		H-9	
Frichloracetic Acid			F-9		H-9	
Frichlorethane	Any		F-1,2,5,7,15	C-1	H-1	G-1,4,5,9
	Any			C-1	H-1.13	
richloroethylene		140	F-1,2,6,12,13,15,18,19		20 0307	G-1,4,5,9
Friethanolamine		140	F-1,2,9,15	C-1,2	H-1,2	G-1,3,5,10,11
Frisodium Phosphate		70	F-1,2,6,9,15,19	C-1,2	H-2,4,9,13	G-2,3,5,9,10
l'ung Oil		70	F-9	C-1,2	H-2,4,9	G-2,5,10
Turpentine		Note 2,8	F-1,2,9,15,19	C-1	H-1,9,12	G-1,2,4,5,9
Ultrasonic Cleaning Solution			F-2	C-2	H-4,9,12	G-8
Jrea	Any	200	F-15	C-2		G-5
Jrea - Formaldehyde Resins		Note 3	F-1,2,9	C-1	H-1	G-1,4,5
Jrine			F-9	1	H-9	10000000
Vanilla Extract		Note 2	F-1,2	C-2	H-1,2,4	G-5,7
Varnish		Note 2	F-1,2,15,19	C-1	H-1	G-1,4,5
Varsal			F-21			G-2,3,9,10,13
Vaseline			F-9		H-9	Grander drafters
Vinegar		100	F-1,2,9,17	C-1	H-2	G-1,3,5,6,9,10,11
Vinyl Acetate			F-2	C-2	H-4	G-1,5
Vinyl Chloride			F-7 (Must be Dry)	C-2	H-4	G-5
Vater - Deionized, Demineralize	vI.	100	F-3,6,9,15,17,20,21	C-2	H-2,4,13	G-1,2,5,6,7
Distilled		100	1530,0,15,17,20,21	0-2	11-4,7,12	CJ-1,2,2,3,12,1
N. C.		N	E 2 0 12 20 21	0.22	77.5.40	0.7
Vater - Drinking		Note 5	F-3,9,17,20,21	C-2,7	H-2,4,9	G-7
Vater - Industrial		Note 2,5,8	F-3,6,7,9,15,17	C-1,2	H-9,12,13	G-1,2,3,6,10,11
Vax Crayon		No. 00 (1975)	F-9		H-9	Carrow Co.
Vax Emulsions		Note 2	F-1,2,17	C-1	H-1	G-14
Vheat Germ Oil			F-9	100000	H-9	0.000
Whiskey and Wines*			F-1,9,17	*C-2	*H-2,4,10	G-7
Vhite Paraffin			F-9		H-9	
(ylene (Xylol)	Any	70	F-1,2,5,6,7,15,18,19	C-1	H-1	G-1,4,5,9
(ylene (Xylol)	Any	200	F-1,2,5,6,7,18,19	C-1	H-1	G-1,4,5,9
/east	-		F-9		H-9	7 297/1
Cine Acid		150	F-1,2,9,15	C-4	H-4,9,12	G-8
inc Bromide	3%	210	F-1,2,5,7	C-2,4	H-4	G-1,2,3,6,9,10,11
ine Bromide	Any	Note 3.8	F-5.7.9	C-2	H-4,9,12	G-1,2,3,6,9,10,11
inc Chloride	10%	70	F-1,2,5,9,15,17,18,20,21	C-2,4	H-4,9,12	G-1,2,3,6,9,10,11
ine Chloride	20%	175	F-5,9,15,18,20,21	C-2,4	H-4,12	G-1,2,3,6,9,10,11
inc Chloride	50%	200	F-15,18,20,21	C-2,4	H-4,12	
inc Chloride		NATIONAL PROPERTY.			1700000 to 100000 to 100000	G-1,2,3,6,9,10,11
	Any	Note 3,8	F-1,2,6,9	C-1,4,5	H-4,9,12,13	G-1,5,6
*passivate on bourbons						

Core Material & Band Ring for Bags:	Gasket Material:			
H-1 - Tinned Steel	G-1 - Asbestos Substitute	G-10 - Ethylene Propylene (EPM, EPR		
H-2 - 304 Stainless Steel	G-2 - Buna N	& EPDM)		
H-4 - 316 Stainless Steel	G-3 - Neoprene	G-11 - Hypalon ³		
H-9 - Polypropylene	G-4 - Plant Fiber	G-12 - Cork		
H-10 - Passivated 316 Stainless Steel	G-5 - Teflon ³	G-13 - Silicone		
H-12 - Glass Filled Polypropylene	G-6 - Butyl Rubber	See page 16 for Properties of Gasket Materials Chart		
H-13 - Nylon	G-7 - Buna N FDA (Tasteless, Odorless, Non-Toxic)	A Pennwalt trademark		
	G-8 - Natural Rubber	² A W.L. Gore & Associates trademark		
	G-9 - Viton	³ A Du Pont trademark		

% Concentration		Temp F a	Filter Media	Container	Core	Gasket
Zinc Bright Cyanide Zinc Fluoborate** Zinc Nitrate Zinc Oxide		130	F-1,2,9 F-6,9 F-9 F-9	C-1 C-4	H-9,12 H-4,13,12 H-9 H-9	G-5,6,10 G-8
Zinc Sulfate Zinc Sulfate	Any 50%	Note 3,8 70	F-7.9 F-7.9.15	C-2,4 C-4	H-4,9,12 H-4,9,12	G-5,6 G-5,6

^{**} Note: flush polyproplyene cartridges with water before putting on stream to filter plating solutions





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