PALL Laboratory

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Glass Fiber Filters: Superior Grade Filters for a Variety of Biological and Environmental Methods

Product Description

- Type A/E meets the requirements for suspended solids testing, as described in Standard Methods for the Examination of Water and Wastewater, current edition
- Reduces filtration costs and premature clogging when filtering difficult-to filter or highly contaminated solutions
- Extends filter life and reduces final filter changes with high capacity prefilters
- Binder-free borosilicate glass fiber has no added extractables, preventing sample contamination
- Filters a wide range of particulate loads and viscous solutions with a selection of filter thicknesses from which to choose
- Filters with binder offer excellent wet strength for easy handling and filter integrity

Applications

- Glass fiber filters are used in a variety of sample clean-up, prefiltration, and analytical testing applications.
- Choose between binder free borosilicate glass for complete purity or glass fiber with acrylic binder for added strength.

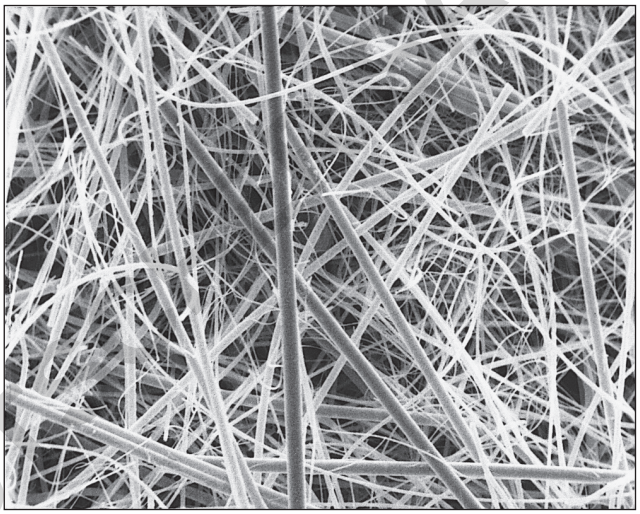
Product Types

Type A/E Glass Fiber

- For testing dissolved and suspended solids in wastewater and gravimetric analysis of air pollutants.
- High flow rates, wet strength, and dirt (solids) holding capacities.

Type A/B Glass Fiber

- High dirt-loading capacity with 2.5 times thicker glass than Type A/C.
- Manufactured of the highest quality borosilicate glass microfibers.



Type A/C Glass Fiber

- For testing dissolved and suspended solids in wastewater.
- Useful for cell harvesting applications.
- Purity eliminates risk of unwanted contaminants leaching into the filtrate.

Type A/D Glass Fiber

- Excellent prefilters for solutions with a heavy load of large-sized particulate that must be removed.
- Large nominal pore size reduces membrane clogging.

Extra Thick Glass Fiber with Binder

- Preferred for prefiltration of viscous biological solutions.
- High particulate-holding capacity makes discs efficient depth filters and allows for filtration of large volumes of solutions.

Metrigard™ Glass Fiber With Binder

- Useful for prolonging membrane filter life in liquid systems that contain substantial amounts of particulate matter.

TCLP Glass Fiber

- Designed to meet requirements for use in U.S. EPA SW-846 Method 1311: Toxic Characteristics Leaching Procedure (TCLP).

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Specifications

Description	Type A/E	Type A/B	Type A/C
Typical Applications	Water solids testing, air monitoring, gravimetric analysis	Diagnostic applications, sample prefiltration	Cell harvesting, prefiltration, solids testing
Filter Media	Borosilicate glass without binder	Borosilicate glass without binder	Borosilicate glass without binder
Pore Size (Nominal)	1 µm	1 µm	1 µm
Typical Thickness	330 µm (13 mils)	660 µm (26 mils)	254 µm (10 mils)
Typical Water Flow Rate mL/min/cm² at 0.3 bar (30 kPa, 5 psi)	250	124	153
Typical Air Flow Rate L/min/cm² at 0.7 bar (70 kPa, 10 psi)	60	24	40
Maximum Operating Temperature	Air - 550 °C (1,022 °F)	Air - 550 °C (1,022 °F)	Air - 550 °C (1,022 °F)
Sterilization	Autoclavable	Autoclavable	Autoclavable
Typical Aerosol Retention*	99.98%	–	–

Description	Type A/D	Extra Thick Discs	Metrigard™ Discs	TCLP
Typical Applications with large-sized particulate	Prefiltration of solutions contaminated samples	Prefiltration of heavily	Prefiltration in systems with high particulate matter	U.S. EPA Method 1311
Filter Media	Borosilicate glass without binder	Glass fiber with acrylic binder**	Ultrafine glass fiber with acrylic binder**	Borosilicate glass without binder***
Pore Size (Nominal)	3 µm	1 µm	0.5 µm	0.7 µm
Typical Thickness	660 µm (26 mils)	1270 µm (50 mils)	330 µm (13 mils)	432 µm (17 mils)
Typical Water Flow Rate mL/min/cm² at 0.3 bar (30 kPa, 5 psi)	649	210	80	–
Typical Air Flow Rate L/min/cm² at 0.7 bar (70 kPa, 10 psi)	139	26	21	–
Maximum Operating Temperature	Air - 550 °C (1,022 °F)	Water - 135 °C (275 °F)	Water - 135 °C (275 °F)	NA
Sterilization	Autoclavable	Autoclavable	Autoclavable	Autoclavable
Typical Aerosol Retention*	–	99.97%	–	–

* Following ASTM D 2986-95A 0.3 µm (DOP) at 32 L/min/100 cm² filter media.
** Binder is 5% of total material.
*** TCLP glass fiber filters are not acid washed.

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Ordering Information

Type A/E Glass Fiber Disc and Sheet Filters, 1 µm

Part Number	Description	Pkg
61630	25 mm	500/pkg
61652	37 mm	500/pkg
61631	47 mm	100/pkg
61632	50 mm	100/pkg
61663	76 mm	100/pkg
60010	81 mm	100/pkg
60127	82.5 mm	100/pkg
61664	90 mm	100/pkg
61633	102 mm	100/pkg
61655	124 mm	100/pkg
66559	142 mm	25/pkg
61635	142 mm	100/pkg
61637	293 mm	100/pkg
61638	8 x 10” Sheet	100/pkg
60058	Pre-Numbered 8 x 10” Sheet	100/pkg

Type A/B Glass Fiber Disc and Sheet Filters, 1 µm

Part Number	Description	Pkg
66198	25 mm	100/pkg
66208	37 mm	100/pkg
66209	47 mm	100/pkg
66210	142 mm	25/pkg
66679	142 mm	100/pkg
66211	8 x 10” Sheet	25/pkg

Type A/C Glass Fiber Disc and Sheet Filters, 1 µm

Part Number	Description	Pkg
66213	25 mm	100/pkg
66215	47 mm	100/pkg
66216	142 mm	25/pkg
66217	8 x 10” Sheet	25/pkg

Type A/D Glass Fiber Disc and Sheet Filters, 3 µm

Part Number	Description	Pkg
66224	47 mm	100/pkg
66226	142 mm	25/pkg
66227	8 x 10” Sheet	25/pkg

Extra Thick Glass Fiber Disc Filters, 3 µm

Part Number	Description	Pkg
66075	25 mm	100/pkg
66078	47 mm	100/pkg
66085	142 mm	50/pkg
66088	293 mm	25/pkg

Metrigard™ Glass Fiber Disc Filters with Binder, 0.5 µm

Part Number	Description	Pkg
64798	47 mm	100/pkg

TCLP Glass Fiber Disc Filters

Part Number	Description	Pkg
66251	13 mm	100/pkg
66258	47 mm	50/pkg
66256	90 mm	50/pkg
66257	142 mm	50/pkg
60076	293 mm	25/pkg

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PALL Laboratory

Corporate Headquarters
25 Harbor Park Drive
Port Washington, New York 11050

Filtration. Separation. Solution.SM

Visit us on the Web at www.pall.com/lab
E-mail us at LabCustomerSupport@pall.com

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