

3M™ Betapure™ AUL Series Filter Cartridges & Capsules

3M™ Betapure™ AUL Series Filter Cartridges and Capsules represent a new generation in Chemical Mechanical Planarization (CMP) slurry classification providing superior reduction of large particle counts for improved yields. 3M's bi-component fiber technology with targeted multi-zone filtration layers enable Large Particle Count (LPC) reduction and yield improvement in the most advanced CMP processes.

The rigid filter structure retains consistent pore size even under intermittent process conditions. Changes such as those caused by pump fluctuations, stopping and restarting the system, or high differential pressure will have minimal, if any, effect on product consistency. Depth filtration reduces LPCs and provides superior classification of slurry particles to help eliminate rework or rejection.

The targeted multi-zone construction optimizes both LPC reduction and enhanced flow characteristics, including extremely low pressure drop. Shearing of the slurry is minimized, while providing long service life.



Features & Benefits

Rigid, Targeted Multi-zone Structure

- Provides consistent filtration from start to finish
- Superior classification of slurry particles, reducing LPCs
- Filtration efficiency to 50 nm for critical CMP applications

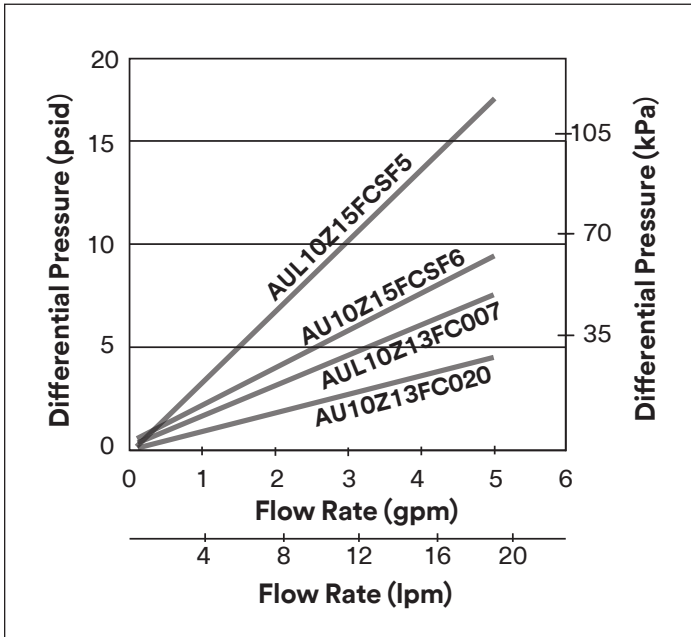
Quality Manufacturing

- ISO certified quality management system
- Built to controlled specifications to enable repeatable performance in the planarization process

Table 1: Product Specifications

Operating Parameters & Specifications		
Filter Rating	Z13 Grade	Z15 Grade
	70 nm and 200 nm	50 nm and 60 nm
Materials		
Media	Polyethylene: Polypropylene bi-component fiber and glass fiber	Polyethylene: Polypropylene bi-component fiber and bound glass fiber
Core	N/A (self-supporting rigid structure)	
End Caps	Polypropylene	
O-rings	EPR standard	
Capsule Body	Polypropylene	
Operating Conditions — Cartridge		
Maximum Operating Differential Pressure	80 psid @ 68°F (5.5 bar @ 20°C)	
Operating Conditions — Capsule		
Maximum Operating Temperature	104°F (40°C)	
Maximum Operating Pressure	60 psig @ 104°F (4.1 bar @ 40°C)	

Excellent Flow Rates at Low Differential Pressure

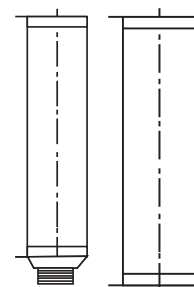


3M™ Betapure™ AUL and Betapure™ AU Series 10" Cartridges Designed to provide excellent flow rates with low differential pressures.

3M™ Betapure™ AUL and Betapure™ AU Series Filter Cartridge Ordering Guide

Description, Large Diameter Cartridges	Model Number	3M ID Number	Model Number	3M ID Number
	Z13 Grade (70 nm)		Z15 Grade (50 nm)	
2" filter with 222 connector, flat cap and EPR o-rings, 2.72" OD	AUL02Z13VC007	70020351220	AUL02Z15VCSF5	70020351584
5" filter with 222 connector, flat cap and EPR o-rings, 2.92" OD	AUL05Z13FC007	70020323872	AUL05Z15FCSF5	70020348820
10" filter with 222 connector, flat cap and EPR o-rings, 2.92" OD	AUL10Z13FC007	70020323898	AUL10Z15FCSF5	70020348838
20" filter with 222 connector, flat cap and EPR o-rings, 2.92" OD	AUL20Z13FC007	70020323906	AUL20Z15FCSF5	70020348853
30" filter with 222 connector, flat cap and EPR o-rings, 2.92" OD	AUL30Z13FC007	70020323914	AUL30Z15FCSF5	70020348861
10" filter double open end, with Volara® polyethylene foam end caps, 2.72" OD	AUL09Z13NG007	70020323880	Consult Factory	

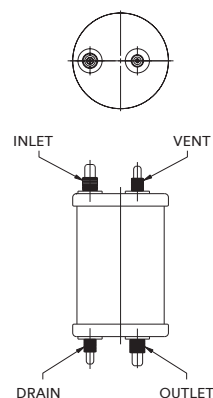
Description, 2.5 inch Diameter Cartridges	Model Number	3M ID Number	Model Number	3M ID Number
	Z13 Grade (200 nm)		Z15 Grade (60 nm)	
2" filter with 222 connector, flat cap and EPR o-rings, 2.5" OD	AU02Z13FC020	70020351402	AU02Z15FCSF6	70020351592
5" filter with 222 connector, flat cap and EPR o-rings, 2.5" OD	AU05Z13FC020	70020352434	AU05Z15FCSF6	70020348903
10" filter with 222 connector, flat cap and EPR o-rings, 2.5" OD	AU10Z13FC020	70020204783	AU10Z15FCSF6	70020348911
20" filter with 222 connector, flat cap and EPR o-rings, 2.5" OD	AU20Z13FC020	70020207133	AU20Z15FCSF6	70020348929
30" filter with 222 connector, flat cap and EPR o-rings, 2.5" OD	AU30Z13FC020	70020238211	AU30Z15FCSF6	70020348937



Cartridge Configurations

3M™ Betapure™ AUL and Betapure™ AU Series Filter Capsule Ordering Guide

Description	Model Number	3M ID Number	Model Number	3M ID Number
	Z15 Grade (60 nm)		Z15 Grade (50 nm)	
2" capsule, 1/4" Flaretek in/out, 1/4" Flaretek® vent/drain	AUZ15SF6Y02RC	70020350438	AULZ15SF5Y02RC	70020350412
5" capsule, 3/8" Flaretek in/out, 1/4" Flaretek® vent/drain	AUZ15SF6Y04LC01	70020349000	AULZ15SF5Y04LC01	70020348960
5" capsule, 1/4" MNPT in/out, 1/4" MNPT vent/drain	AUZ15SF6Y04PC01	70020349018	AULZ15SF5Y04PC01	70020348978
10" capsule, 3/8" Flaretek in/out, 1/4" Flaretek® vent/drain	AUZ15SF6Y10LC01	70020349026	AULZ15SF5Y10LC01	70020348986
10" capsule, 3/4" Flaretek in/out, 1/4" Flaretek® vent/drain	AUZ15SF6Y10SC01	70020349034	AULZ15SF5Y10SC01	70020348994



Capsule Configurations

Description	Model Number	3M ID Number	Model Number	3M ID Number
	Z13 Grade (70 nm)		Z13 Grade (200 nm)	
2" capsule, 1/4" Flaretek in/out, 1/4" Flaretek® vent/drain	AULZ13007Y02RC	70020350420	AUZ13020Y02RC	70020350446
5" capsule, 3/8" Flaretek in/out, 1/4" Flaretek® vent/drain	AULZ13007Y04LC01	70020324029	AUZ13020Y04LC01	70020354133
5" capsule, 1/4" MNPT in/out, 1/4" MNPT vent/drain	AULZ13007Y04PC01	70020324060	AUZ13020Y04PC01	70020354141
10" capsule, 3/8" Flaretek in/out, 1/4" Flaretek® vent/drain	AULZ13007Y10LC01	70020324466	—	—
10" capsule, 3/4" Flaretek in/out, 1/4" Flaretek® vent/drain	AULZ13007Y10SC01	70020324508	—	—

Intended Use: 3M™ Betapure™ AUL Series products are intended for use in industrial filtration applications of aqueous fluids in accordance with the applicable product instructions and specifications. 3M Betapure AUL Series products are also intended for use with non-aqueous fluids where materials of construction are compatible. Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the 3M product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the 3M product in user's application.

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70-0203-2392-2 REV 0423