

# Betapure™ AUL Series

## Filter Cartridges and Capsules

### Betapure™ AUL Series Filter Cartridges & Capsules

Betapure™ AUL Series filters represent a new generation in Chemical Mechanical Planarization (CMP) slurry classification providing superior reduction of large particle counts for improved yields. Featuring 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, to minimize shearing of the slurry while providing superior service life.



## Features & Benefits

### Rigid, Targeted Multi-zone Structure

- Provides consistent filtration from start to finish
- Superior classification of slurry particles, reducing LPCs

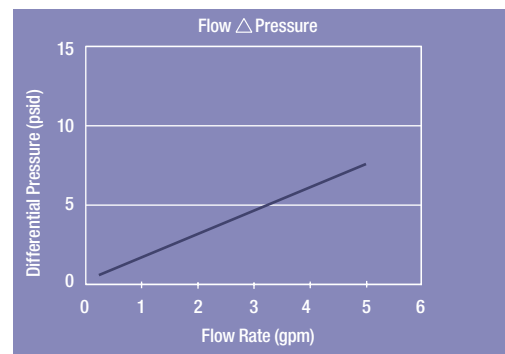
### Quality Manufacturing

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

## Operating Parameters & Specifications

Filter Rating	0.7 µm (abs) 70 nm (nom)
<b>Materials</b>	
Media	Polyethylene: polypropylene bi-component fiber and glass fiber
Core	N/A (self supporting rigid structure)
End Caps	Polypropylene
O-rings	EPR standard
Capsule Body	Polypropylene
<b>Operating Conditions - Cartridge</b>	
Maximum Operating Temperature	175°F (80°C)
Maximum Operating Pressure	80 psid @ 68°F (5.5 bar @ 20°C)
<b>Operating Conditions - Capsule</b>	
Maximum Operating Temperature	104°F (40°C)
Maximum Operating Pressure	60 psig @ 104°F (4.1 bar @ 40°C)

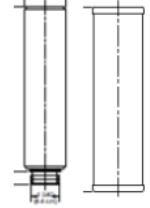
### Excellent Flow Rates at Low Pressure Differentials



Betapure™ AUL Series 10" Cartridges were designed to provide excellent flow rates with low differential pressures.

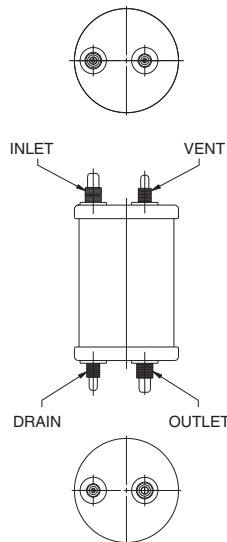
# Betapure™ AUL Series Filter Cartridge Ordering Guide

Description	Model Number	3M ID Number
5" filter with 222 connector, flat cap and EPR o-rings, 2.92"OD	AUL05Z13FC007	70020323872
10" filter with 222 connector, flat cap and EPR o-rings, 2.92"OD	AUL10Z13FC007	70020323898
20" filter with 222 connector, flat cap and EPR o-rings, 2.92"OD	AUL20Z13FC007	70020323906
30" filter with 222 connector, flat cap and EPR o-rings, 2.92"OD	AUL30Z13FC007	70020323914
10" filter double open end, with Valora Polyolefin Foam end caps, 2.72"OD	AUL09Z13NG007	70020323880



# Betapure™ AUL Series Filter Capsule Ordering Guide

Description	Model Number	3M ID Number
5" capsule, 3/8" Flaretek in/out, 1/4" Flaretek® vent/drain	AULZ13007Y04LC01 / AULZ13007Y04LC06 (6 pack)	70020324029 / 70020324037
5" capsule, 1/4" MNPT in/out, 1/4" MNPT vent/drain	AULZ13007Y04PC01 / AULZ13007Y04PC06 (6 pack)	70020324060 / 70020324078
10" capsule, 3/8" Flaretek in/out, 1/4" Flaretek vent/drain	AULZ13007Y10LC01 / AULZ13007Y10LC06 (6 pack)	70020324466 / 70020324623
10" capsule, 3/4" Flaretek in/out, 1/4" Flaretek vent/drain	AULZ13007Y10SC01 / AULZ13007Y10SC06 (6 pack)	70020324508 / 70020324607



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Your Local Distributor:



**3M Purification Inc.**

400 Research Parkway  
Meriden, CT 06450  
U.S.A.  
Phone (800) 243-6894  
(203) 237-5541  
Fax (203) 630-4530  
www.3Mpurification.com

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