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Industrial Filtration
Product data sheet

3M™ LifeASSURE™ BBA Series Filter Cartridges

Provides reliable microorganism control in food and beverage applications. Designed for durable and long-lasting performance in a variety of food and beverage applications.

Food & beverage applications

- Beer
- Wine
- Bottled Water
- Soft Drinks
- Hard Seltzer (Alcoholic)

Food Contact Compliant

IBWA INTERNATIONAL BOTTLED WATER ASSOCIATION

Technical product benefits

- The LifeASSURE BBA filter cartridge is manufactured under an ISO 9001: 2015 certified quality management system.
- LifeASSURE BBA 0.45 µm and 0.65 µm rated filter cartridges provide excellent retention of common spoilage microorganisms.
- LifeASSURE BBA filter cartridges deliver reliable spoilage mircoorganism retention for: Lactobaccillus Brevis (0.45 µm) and Saccharomyces cerevisiae (0.65 µm).
- The LifeASSURE BBA Filter cartridge design combines asymmetric PES membrane and meltblown polypropylene microfiber media.
- Product complies with applicable US FDA 21-CFR food and beverage contact regulations.
- LifeASSURE BBA filter cartridges are stable with most cleaning and sanitization regimes.
- The LifeASSURE BBA 0.45 µm and 0.65 µm filter cartridges are tested in accordance to NSF Standard 401 for microplastics reduction (≥ 85% efficiency for particles ≥ 0.5µm).

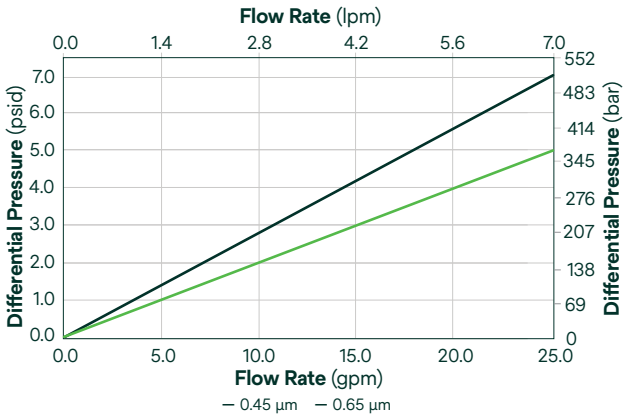
3M™ LifeASSURE™ BBA Filter Cartridges	Microorganisms	Typical log reduction value (LRV)
BBA 0.45 µm	*Lactobaccillus Brevis*	7
BBA 0.65 µm	*Saccharomyces cerevisiae*	7

Log Reduction Values are calculated using the following formula:

$$\text{LRV} = \log\left(\frac{\text{total number or organisms entering the filter cartridge}}{\text{total number or organisms exiting the filter cartridge}}\right)$$

Materials of construction

Component	Materials
Membrane	Polyethersulfone
Support layers	Polypropylene
Inner core, outer cage, end caps	Polypropylene
End cap adaptors	Polypropylene with or without embedded stainless steel reinforcing ring
O-Rings	Silicone or EPR



Ordering guide

3M™ LifeASSURE™ Series Filter Cartridges	Ratings (µm)	Cartridge configuration	Length (inches)	End modification	O-ring/ gasket material	Adapter insert
BBA	**045** – 0.45 **065** – 0.65	**A**	**01** – 10 **02** – 20 **03** – 30 **04** – 40	**B** – 226 O-Rings & Spear **C** – 222 O-Rings & Spear	**A** – Silicone **C** – EPR	**0** = No Insert **2** = SS Insert

BBA045A01BA0 - LifeASSURE BBA, 10in, 0.45um, 226 with spear endcap and silicone o-ring.

Technical data and operating parameters

Nominal filter cartridge dimensions	
Effective filtration area (10" element)	6.1 ft.² (0.56 m²)
Filter cartridge diameter	2.72" (69 mm)
Filter cartridge lengths	10" (254 mm), 20" (508 mm), 30" (762 mm), 40" (1016 mm)
Operating parameters	
Recommended flow rate (10" element)	Beer: 1-2 gpm (3.8-7.6 Lpm) Wine: 2-3 gpm (7.6-11.4 Lpm)
Maximum forward differential pressure	80 psid @ 77°F (5.5 bar @ 25°C) 35 psid @ 194°F (2.4 bar @90°C)
Maximum hot water sanitizing temperature	Hot water: 194°F (90°C) – 75 hrs. 1 gpm (3.8 LPM), 10 psi (0.69 bar)
Steam sanitizing temperature	266°F (130°C) – 150, 30-minute cycles
NaOH cleaning duration	1M Conc. @ 149°F (65°C) - 100 hrs.
Paracetic acid sanitizing (27% hydrogen peroxide, 5.0% peracetic acid)	1% Conc. @ 77°F (25°C) - 100 hrs.
Potassium metabisulfite	2oz/gal @ 77°F (25°C) - 100 hrs.
Ethyl alcohol, v/v (ethanol)	70% Conc. @ 77°F (25°C) - 100 hrs.

Compliance

Standard
ISO 9001: 2015 Certified Quality Management System
100% diffusion flow tested prior to shipment
Materials of construction comply with USA FDA 21 CFR.*
Tested in accordance to NSF Standard 401 for microplastics reduction (≥ 85% efficiency for particles ≥ 0.5um)

*The wetted component materials, when used in accordance with Solventum product intended uses and instructions, have been evaluated and found to comply to USA FDA 21 CFR sections 170-186 for food contact applications. For details related to specific use conditions or limitations for food contact applications please contact your Solventum representative for more information.

	BBA045 (0.45 µm)	BBA065 (0.65 µm)
Forward flow test pressure	16 psi (1.1 bar)	4.5 psi (0.2 bar)
Maximum diffusion (10" element)	≤ 24 sccm	≤ 7 sccm
Minimum bubble point	≥ 1.4 bar (20.3 psi)	≥ 0.4 bar (5.8 psi)
Pressure hold test	Consult Purification and Filtration representative	Consult Purification and Filtration representative

Intended Use and Product Selection: LifeASSURE BBA series filter products are intended for use in food and beverage filtration of aqueous fluids in accordance with the applicable product instructions and specifications. LifeASSURE BBA series filter 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 Solventum product is suitable and appropriate for the user's specification, including user conducting an appropriate risk assessment and evaluating the Solventum product in user's application.
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3M industrial process filtration is now part of Solventum

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