


POLY-EARTH
PEA Type
Major Applications
Clarification for food and beverage

Example: Beer, Wine, Whisky, Distilled spirits, Japanese Sake, Tea-based beverages, Vinegar, Soy sauce, Syrup, Flavor and Fragrance, Oils and fats

Halal Certified

Halal certification is a system whereby a certification body conducts an audit of the product in question and certifies that it has been produced and supplied in accordance with Islam.


Features

- Micro glass fiber filter media containing diatomaceous earth
- Pleated structure with high accuracy and high porosity

Advantages

- Effectively removes colloidal suspensions that cause turbidity
- Adsorption and removal of starch-causing substances such as organic fatty acids and polyphenols
- No need for set-up procedures, such as filtration aids in filtration equipment
- Long service life
- Effective as a pre-filter for membrane filters
- Removal of heat-resistant acidophilic bacteria (TAB) that cause food deterioration (filtration grade: 0.5, 0.8 μ m)

Quality standards

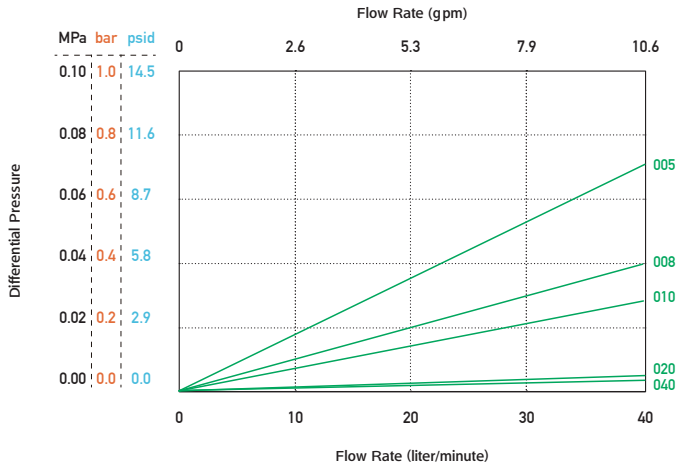
- Adaptable Food Sanitation Standard
 - FDA 21 CFR*
 - * Applicable Gaskets and O-ring materials exclude EPDM.
- Heat sterilization durability
 - (Available with Code7 of End cap code.)
 - Steam
 - 126°C (258.8°F) x 30 minutes x 10 cycles

Specifications

	005	008	010	020	040
Grades	005	008	010	020	040
Micron Ratings (μ m)	0.5	0.8	1.0	2.0	4.0
E.F.A. (m ² /250mm)	0.2	0.22	0.3	0.48	0.64
Media	Polyolefin, Diatomaceous Earth, Glass Fiber				
Materials	Polypropylene				
Core/Cage/Support	Polypropylene				
End Cap	Polypropylene				
Maximum Δ P	0.49MPa at 20°C (71psi at 68°F)				
Maximum Operating Temp	80°C (176°F)				
Length	125/250/500/750 mm				
Dimensions	70.0mm				
O.D.	25.6 (for 0.5)/26.1 (for F)/30.0 (for 7) mm				
I.D.					

Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



Particle Removal Efficiency

Grades Particle Size (μm)	Particle Removal Efficiency (%)				
	005	008	010	020	040
0.8	>99.9	>99.5	>99.5	>99.0	>97.5
1.0		>99.9	>99.5	>99.5	>99.5
2.0			>99.9	>99.9	>99.5
4.0					>99.9

Test Conditions

Equipment : Liquid Particle Counter Fluid : Refined Water
 Filtration : Single Pass Flow Rate : 10 liter/minute
 Dust : ACFTD+LATEX Beads

Microbial removal performance

Grades	Biological Indicator	LRV*
005	<i>Alicyclobacillus acidoterrestris</i> (ATCC49025)	5
008	<i>Alicyclobacillus acidoterrestris</i> (ATCC49025)	4

*LRV represents Log Reduction Value (Refer to JIS K3835)
 *Bacterial challenge level is more than 1×10^7 CFU/cm².

Ordering Information

<p>Length</p> <p>2 5 0 L</p> <p>▼</p> <p>125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm</p>	<p>Product Type</p> <p>-PEA-H</p>	<p>Micron Rating</p> <p>0 1 0</p> <p>▼</p> <p>005 = 0.5 μm 008 = 0.8 μm 010 = 1.0 μm 020 = 2.0 μm 040 = 4.0 μm</p>	<p>Gasket/O-Ring</p> <p>S</p> <p>▼</p> <p>S = Silicone E = EPDM N = NBR V = FKM T = FEP Encapsulated FKM (for 0, 5, 7) PTFE (for F)</p>	<p>End Cap Code</p> <p>7</p> <p>▼</p> <p>F = Flat Gaskets 0 = 2-222 O-Ring 5 = 2-222 O-Ring + Fin 7 = 2-226 O-Ring + Fin</p>
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*Order unit: 25 pcs/box.

End Cap Code



*The contents of the catalog are subject to change without notice.

*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

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Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope

Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



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MS CM009

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