

Adsorption



POLY-EARTH

PED Type

Major Applications

Clarification for Food and Beverage

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

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
- ullet Removal of heat-resistant acidophilic bacteria (TAB) that cause food deterioration (filtration grade: 0.5, 0.8 μ m)

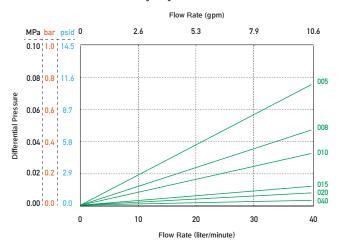
Quality standards

- Adaptable Food Sanitation Standard
- •FDA 21 CFR *1
- •EC No.1935/2004, EU No.10/2011 *2
- *1 Applicable Gaskets and O-ring materials exclude EPDM.
- *2 Applicable Gaskets and O-ring materials are silicone only.
- Heat sterilization durability
 (Available with Code7 of End cap code.)
 - Steam 126° C (258.8°F) x 30 minutes x 10 cycles

Specifications								
Grades		005	008	010	015	020	040	
Micron Ratings (μ m)		0.5	0.8	1.0	1.5	2.0	4.0	
E.F.A. (m²/250mm)		0.2	0.22	0.3	0.29	0.48	0.64	
	Media	Polypropylene, Diatomaceous Earth, Glass Fiber						
Materials	Core/Cage/Support	Polypropylene						
	End Cap	Polypropylene						
Maximum △P		0.49MPa at 20℃ (71psi at 68°F)						
Maximum Operating Temp		80℃ (176°F)						
	Length	125/250/500/750 mm						
Dimen- sions	0.D.	70.0mm						
310113	I.D.	26.9 (for 3, 4) / 26.1 (for F) / 30.0 (for 7) mm						
Recommended flushing volume (Refined Water/250mm)		40L						

Differential Pressure vs Flow Rate

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



Particle Removal Efficiency

Grades	Particle Removal Efficiency (%)							
Particle Size (μm)	005	800	010	015	020	040		
0.5	>99.9	> 99.5						
0.8		>99.9	> 99.5					
1.0			>99.9	> 99.5				
1.5				> 99.9	> 99.5			
2.0					> 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 : ALUMINA (PED-005 • 008)

ACFTD+LATEX Beads (PED-010 · 015 · 020 · 040)

Microbial removal performance

Grades	Biological Indicator	LRV*
005	Alicyclobacillus acidoterrestris (ATCC49025)	6
008	Alicyclobacillus acidoterrestris (ATCC49025)	5

*LRV represents Log Reduction Value (Refer to JIS K3835)

*Bacterial challenge level is more than $1 \times 10^7 \text{CFU/cm}^2$.

Ordering Information

2 5 0

Length

125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm Product Type
-PED-

Micron Rating

0 1 0

 $005 = 0.5 \,\mu$ m $008 = 0.8 \,\mu$ m $010 = 1.0 \,\mu$ m $015 = 1.5 \,\mu$ m

 $020 = 2.0 \,\mu \,\mathrm{m}$ $040 = 4.0 \,\mu \,\mathrm{m}$ Gasket/O-Ring



S = Silicone E = EPDM

N = NBR V = FKM

T = FEP Encapsulated FKM (for 3, 4, 7) PTFE (for F) End Cap Code



F = Flat Gaskets

3 = 2-222 O-Ring + Fin

4 = 2-222 O-Ring

7 = 2-226 O-Ring + Fin

Packaging Code



A = 1pc

B = 6pcs C = 10pcs

F = 25pcs

End Cap Code

Code F



Code 3



Code 4



Code 7





*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.

ROKI GROUP International Pte. Ltd.

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





