



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

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

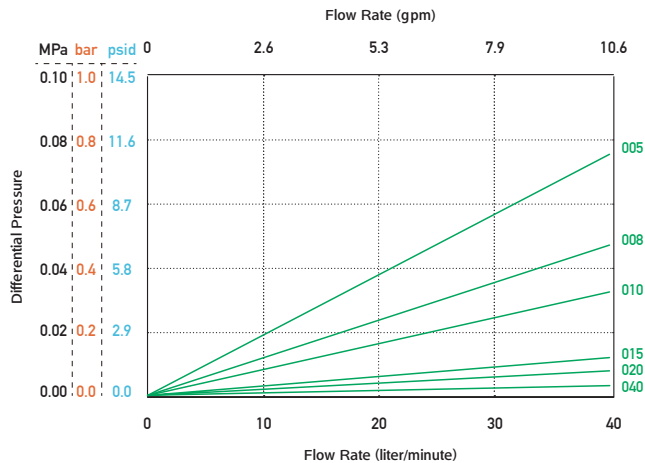
Specifications

Grades		005	008	010	015	020	040
Micron Ratings (μm)		0.5	0.8	1.0	1.5	2.0	4.0
E.F.A. ($\text{m}^2/250\text{mm}$)		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 ΔP		0.49MPa at 20°C (71psi at 68°F)					
Maximum Operating Temp		80°C (176°F)					
Dimen- sions	Length	125 / 250 / 500 / 750 mm					
	O.D.	70.0mm					
	I.D.	26.9 (for 3, 4) / 26.1 (for F) / 30.0 (for 7) mm					
Recommended flushing volume (Refined Water/250mm)		40L					

*If you need further information on specifications (length, end cap type, etc.), please contact us.

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	008	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	<i>Alicyclobacillus acidoterrestris</i> (ATCC49025)	6
008	<i>Alicyclobacillus acidoterrestris</i> (ATCC49025)	5

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

*Bacterial challenge level is more than 1×10^7 CFU/cm².

Ordering Information

Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code
250 L	-PED-	010	S	7	F
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		005 = 0.5 μm 008 = 0.8 μm 010 = 1.0 μm 015 = 1.5 μm 020 = 2.0 μm 040 = 4.0 μm	S = Silicone E = EPDM N = NBR V = FKM T = FEP Encapsulated FKM (for 3, 4, 7) PTFE (for F)	F = Flat Gaskets 3 = 2-222 O-Ring + Fin 4 = 2-222 O-Ring 7 = 2-226 O-Ring + Fin	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.

ROKITECHNO MIRAI CO., LTD.

6-20-12, Minami-Oi, Shinagawa-ku Tokyo, 140-0013 Japan

TEL: +81-3-5764-1131 FAX: +81-3-5764-0681

www.rokitechno.com

For our technical information, please click here.



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.



10th Issue
PED200735LE