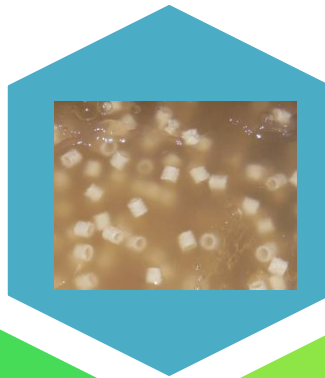


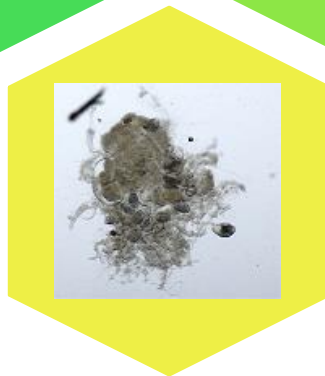
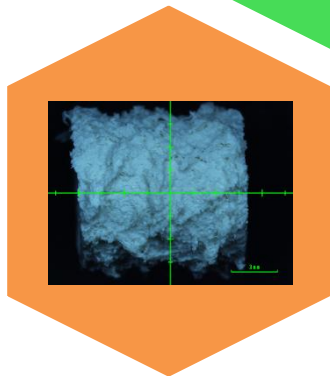
ROZAI

Carrier/Contact media



Replacement due to deterioration

Wide variety of products

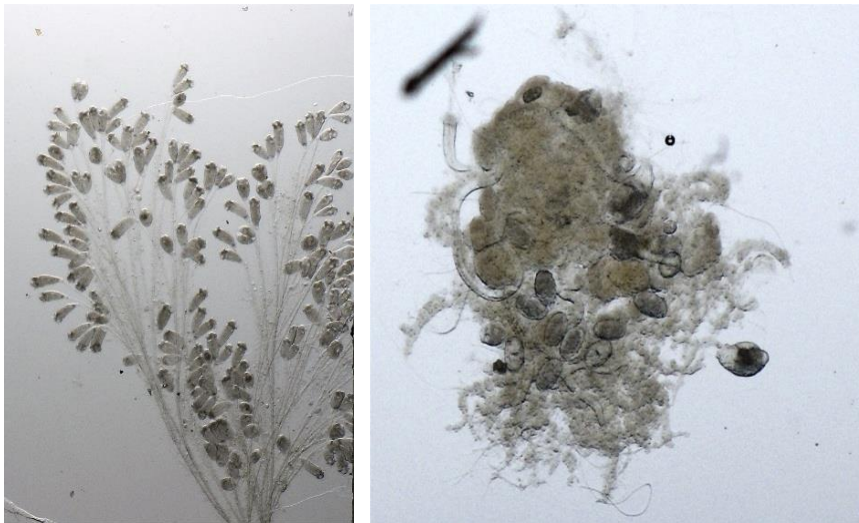
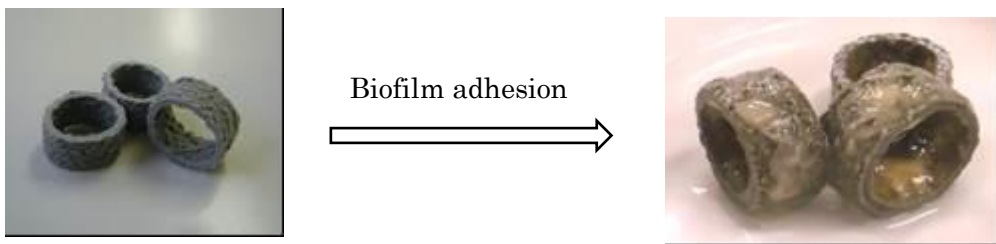


Accumulated data

Carrier/Contact media;

Carriers or contact media are to be used as habitats for microorganisms.

An ecosystem is created by propagating of microorganisms from bacteria to protozoan and metazoan on carriers. Wastewater treatment and deodorization are carried out by the microorganisms. The treatment can be proceeded effectively using carriers or contact media with microorganisms propagated.



Microscope observation of biofilms on carriers:

(Left photo) Vorticella

(Right photo) Colony of Vorticella, Nematoda, Rotaria etc.

We offer a wide variety of products such as foamed carrier with fine voids on the uneven surface, large-sized contact media of netlike frame body and many others.

We are trying to develop new applications of contact media utilizing the manufacturing technology of netlike frame body, for example, a breathable bedding mattress having moderate hardness.

Product Lineup



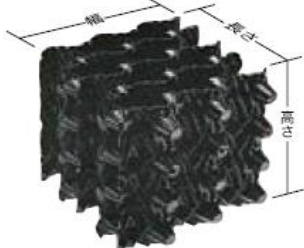


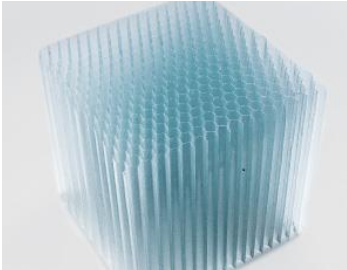


A. Frontier series (carrier)

<p>[1] Carrier Frontier foamed carrier</p>	<p>[2] Bio-Frontier foamed carrier (rough carrier)</p>	<p>[3] Bio-Frontier foamed carrier (with inner ribs)</p>
 <p>For high load condition</p>		
<p>[4] Bio-Frontier foamed carrier (containing charcoal)</p>	<p>[5] Bio-Frontier smooth carrier</p>	<p>[6] Bio-Frontier smooth carrier (with inner ribs)</p>
		
<p>[6] Bio-Frontier caterpillar</p>	<p>[7] Bio-Frontier caterpillar (with inner ribs)</p>	<p>[8] Bio-Frontier net</p>
		

B. MG Series (contact media)

<p>[1] MGR (ring) (60·70·100·120·150)</p>	<p>[2] MGH (plate) (T10·T15·T20·T30)</p>	<p>[3] MGR-H (ring-H)</p>
		
<p>[4] MG3 (triple hills) (2048 · 2548)</p>	<p>[5] MG4 (four hills) (1865 · 2065)</p>	<p>[6] MGM (honeycomb) (2550-P100)</p>
		
<p>[7] MGB (ball) (ø130 · ø150)</p>	<p>[8] Biodegradable MG series</p>	<p>[9] MG mat</p>
		

C Others

<p>[1] MS ball ($\phi 150$)</p>	<p>[2] MS filler</p>	<p>[3] Clean packing</p>
		
<p>[4] Bio-Frontier sponge BFS-1</p>	<p>[5] Bio-Frontier sponge BFS-20</p>	<p>[6] Honeycomb tube</p>
		
<p>[7] Bio cord</p>	<p>[8] Pillow core material</p>	
		

(Applications)

	Application example	Carrier/Contact media used
(1)	Wastewater treatment	
	aerobic treatment / fluidized bed (Johkasou)	A-[1] to [9], C-[4] [5]
	aerobic treatment / fluidized bed (for industrial effluent, high load condition)	A-[1] to [4], C-[4] [5]
	aerobic treatment, anaerobic treatment / fixed bed	B-[1] to [7], C-[1] [3] [6] [7]
(2)	Deodorizing equipment	A-[2], C-[2], A-[9]
(3)	Fisheries (culturing base)	B-[8]
(4)	Stack gas desulfurization	C-[2]
(5)	Bedding, Relaxation	
	Japanese bed, floor cushion	B-[9]
	pillow core material	C-[8]
(6)	Water tank for tropical fish	B-[2], A-[2]

(Specifications)

A. Frontier series

Number	Type	Sizing (mm)	Specific surface (m ² /m ³)	Material
[1]	KF15T	φ 15 × 7.5L	1000	PP etc.
	KF20T	φ 20 × 10L	720	PP etc.
[2]	BF5T	φ 5 × 5L	2240	PP
	BF10T	φ 10 × 10L	1000	PP
	BF15T	φ 15 × 15L	960	PP
	BF20T	φ 20 × 20L	600	PP
[3]	BF15TR	φ 15 × 15L	1300	PP
[4]	BF15TS	φ 15 × 15L	960	PP
[5]	BF15S	φ 15 × 15L	325	PP/PE
[6]	BF13SR	φ 13 × 13L	500	PP/PE
[7]	BF14K	φ 14 × 15L	475	PP/PE
[8]	BF15KR	φ 15 × 15L	475	PP/PE
	BF18KR	φ 18 × 18L	325	PP/PE
[9]	BFN-33	φ 33 × 33L	220	PE

B. MG Series

Number	Type	Sizing (mm)	Specific surface (m ² /m ³)	Material	Remarks
[1]	MGR-60	φ 60 × 60L	208	PP	* The length is adjustable.
	MGR-70	φ 70 × 70L	126	PP	
	MGR-100	φ 100 × 100L	107	PP	
	MGR-120	φ 120 × 120L	79	PP	
	MGR-150	φ 150 × 150L	53	PP	
[2]	MGH-T10	500 × 10T	321	PP	* The length is adjustable.
	MGH-T15	500 × 15T	309	PP	
	MGH-T20	500 × 20T	293	PP	
	MGH-T30	500 × 30T	240	PP	
[3]	MGRH-150 × 150	φ 150 × 150L	70	PP	* The length is adjustable.
[4]	MG3-2048	480 × 200H	48	PP	* The length is adjustable.
	MG3-2548	480 × 250H	44	PP	
[5]	MG4-1865	650 × 180H	50	PP	* The length is adjustable.
	MG4-2065	650 × 200H	48	PP	
[6]	MGM-2550 × 100	500 × 250H	51	PP	* The length is adjustable.
[7]	MGB-130	φ 130	107	PP	
	MGB-150	φ 150	150	PP	
[8]	SMGH-T10	500 × 10T	-	PP	* The length is adjustable.
	SMGH-T15	500 × 15T	-	PP	
	SMGH-T20	500 × 20T	-	PP	
	SMGH-T30	500 × 30T	-	PP	
	SMGH-T40	500 × 40T	-	PP	
	SMGH-T50	500 × 50T	-	PP	
	SMGR-60	φ 60 × Free	-	PP	
	SMGR-70	φ 70 × Free	-	PP	
	SMGR-100	φ 100 × Free	-	PP	
	SMGR-120	φ 120 × Free	-	PP	
	SMGR-150	φ 150 × Free	-	PP	
[9]	MMGH-H	Free	-	PE	* Thickness, size, hardness: at your request.

C. Others

Number	Type	Sizing (mm)	Specific surface (m ² /m ³)	Material	Remarks
[1]	MSB-150	φ 150	77	PP	
[2]	MSF-50	φ 57	100	PP/PE	
	MSF-75	φ 75	75	PP/PE	
	MSF-125	φ 156	52	PP/PE	
[3]	CPS-42	1000 × 1000 × 500-1000	112	PVC	
	CPS-62	1000 × 1000 × 500-1000	71	PVC	
	CPS-71	1000 × 1000 × 500-1000	52	PVC	
	CPS-83	1000 × 1000 × 500-1000	45.5	PVC	
[4]	BFS-1	5 × 5 × 5	40	Urethane	
		10 × 10 × 10			
		15 × 15 × 15			
		20 × 20 × 20			
[5]	BFS-20	5 × 5 × 5	25	Urethane	
		10 × 10 × 10			
		15 × 15 × 15			
		20 × 20 × 20			
[6]	V-13-100	1000 × 1000 × 1000H	306	PVC	
	V-20-120	1000 × 1000 × 1000H	202	PVC	
	V-30-200	1000 × 1000 × 1000H	134	PVC	
	V-50-280	1000 × 1000 × 1000H	79	PVC	
[7]	PV-45	100m × 2	1.4	Polyvinylidene chloride	
	PP-45	100m × 2	2.8	Polypropylene	
	K-45	100m × 2	0.5	Vinylon	
	PP+K-45	100m × 2	1.6	Polypropylene/ Vinylon	
[8]	PPF-4	φ 4	-	PP	* The length is adjustable.
	PPF-5	φ 5	-	PP	
	PPF-6	φ 6	-	PP	
	PPF-7	φ 7	-	PP	

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