Carrier Frontier

New Functional Media

Carrier Frontier mixed with a substance compatible with microorganisms.

Negatively-charged microorganisms are drawn to this media

BOD-SS loading is smaller when using Carrier Frontier compared to ordinal media and the quality of treated water improves leading the processes stable.

Features

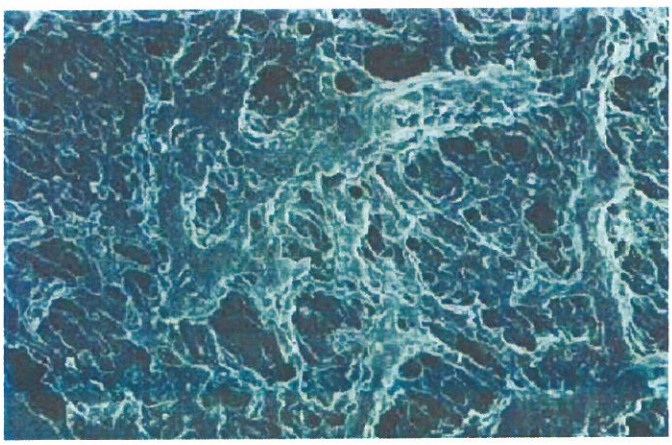
① Many microorganisms attach to the media soon The process starts quickly

The process starts 2-3 weeks faster than usual.

Carrier Frontier with positively-charged surfaces can be attached by many negatively-charged microorganisms.

② High-loading operation

A large deposit of microorganisms allows a low setting of BOD-SS loading, that enables high-concentration and loading operation.



This media surface

(the photo of Scanning Electron Microscope)

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Performance

Carrier Frontier keep many microorganisms

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Low BOD-SS loding

Treatment performance test of different media was carried out.

	φ15×7.5	φ20×10
Gross weight of media deposit MLSS (g)	2.79	4.64
Total weight of MLSS (g)	131	124
BOD-SS loading (kg-BOD /kg-SS)	0.610	0.648

(Operating condition)
Volume : 0.06 m^3
BOD volumetric loading : 2.0kg-BOD／m3・day

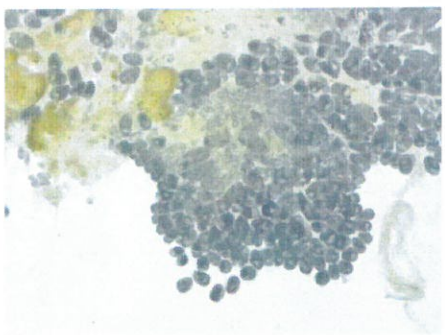
Carrier Frontier with positively-charged surfaces can be attached by negatively-charged microorganisms. That makes BOD-SS loading small and improves the quality of treated water. Nitrification reaction is promoted with longer SRT and the process is stabilized.

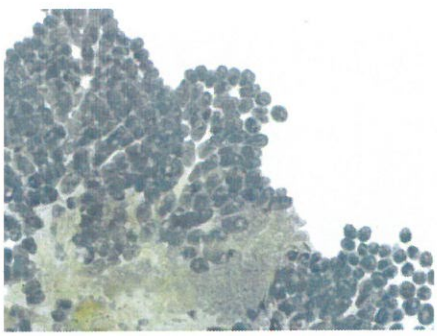
Microorganisms on Carrier Frontier

Carrier Frontier with microorganisms

Rotifera

Tardigrada





Vorticella

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