



PVF BIO HOLDER FOR WATER TREATMENT SYSTEM

Y-CUBE[®] can solve your problem

"Y-CUBE[®]" is PVA sponge microorganism carrier originally developed by YUKIGAYA CHEMICAL INDUSTRY CO.,LTD., which has special unique cellstructure compare to other sponge bio carriers. PVF material features over whelming high-water amenity and high-resist abrasion with this high-spec at new sponge carrier. It will contribute to reduce total operational cost of water treatment system for both existing and new planning systems.



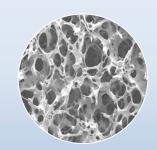
Large specific surface area High-resist abrasion

Fast sinking

Hold microorganism inside of sponge

By arranging conditions which microorganism can be activated, customer can expect lower filling fraction, reduction of aeration, and decrease frequency of maintenance. Also Y-CUBE® could be used for both purpose of aerobic and anaerobic treatment process. With this ability and capability, Y-CUBE® will contribute to save energy and cost for both public sewage and plant water treatment systems.





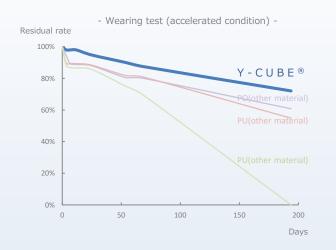
Microscope image of Y-CUBE®

Filling ratio is depend on condition



	Physical data	G-2 type
	Size	10 x 10 x 10 mm
	Porous rate	96 %
	Porous cell size	1000 μm
	Material	PVF(polyvinyl formal regin)
		% These aren't guaranteed values but representative values

Resistance evaluation



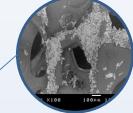
Inside sponge evaluatio

After putting in two types of bio carrier (PO and Y-CUBE®) into active sludge aeration tank for 90 days, after microorganism adhere to the sponges. Cutting the material, and observed if micro-organisms go inside of sponge or not.



PO(other material) Y-CUBE®





Microorganism inside Y-CUBE®

Microorganism inside Y-CUBE[®]



* Photos have been taken when using Y-CUBE® onto actual sewage.

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