

General Introduction

DST, a leading manufacturer with a decade-long legacy, specializes in the production of premium PVA sponges. Renowned for excellence in serving the electronic and semiconductor industries, our commitment to innovation and quality has propelled us into new horizons.

We are proud to announce our expansion into the vital field of wastewater treatment. With a proven track record of reliability and performance, DST is expanded into **PVA sponge cube aiming for wastewater treatment.**

Product Overview



Our PVA sponge cube is a game-changer in wastewater treatment. With its porous structure and inter-

connecting pores, it provides a *vast specific surface area for microbes to thrive.* Its microbe-friendly material makes it an **ideal MBBR substrate**, fostering robust bio-film development. Plus, its inherent hydrophilicity property which ensures the sponge cube always floating in the aeration tank.

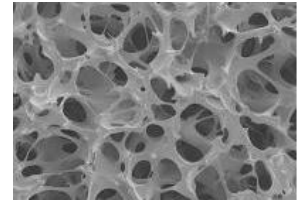
Application

The PVA sponge cube is an innovative substrate aiming for wastewater treatment due to its unique



characteristics. Its porous structure, interconnecting pores, and large specific surface area create an ideal habitat for microorganisms. This microbe-friendly

material encourages their growth, fostering efficient biological treatment. As a Moving Bed Biofilm Reactor (MBBR)



substrate, it enhances wastewater treatment by promoting the attachment and growth of beneficial microbe. The cube's remarkable hydrophilicity ensures rapid water flow, making it highly efficient in developing the bio-film. Our PVA sponge cube emerges as the eco-conscious, high-performance solution for wastewater treatment.

Technical Specification

	S-PVAC-08	L-PVAC-08
Raw Material	PVA (Polyvinyl Alcohol)	PVA (Polyvinyl Alcohol)
Dimension	8*8*8mm	8*8*8mm
Gravity	1.02g/cc	1.02g/cc
Porosity	85-95%	85-95%
Pore Size	80-200um	800-1000um
Specific Surface Area (m ² /m ³)	>40,000	>40,000
Temperature Resistance	60C	60C
Customization	Available	Available

Features

Introducing our state-of-the-art PVA sponge cube, a revolutionary solution tailored for wastewater treatment. This innovative product possesses distinctive attributes that set it apart:

- **Porous, inter-connected structure.**
- **Large specific surface area (>40,000m²/m³) for microbial growth.**

- Ideal for **MBBR substrates**.
- Supports **microbe's biofilm development**.
- **Hydrophilic Properties** to ensure it is floating in the aeration tank.

Our PVA sponge cube redefines wastewater treatment, offering an eco-friendly and efficient solution for the sustainable management of water resources.

Packaging

1) **Compressed Chip Form Packaging**

The PVA sponge cubes are ingeniously compressed into chip form, conserving space for transportation and simplifying storage.

Upon contact with water, these chips will get soften and expand into their original cubic structure.

2) **Vacuum-Sealed Dry Cube Packaging**

The PVA sponge cubes are **packaged in dry and sturdy cube form, vacuum-sealed** to maintain their integrity.

Upon immersion in water, these cubes soften and become fully functional for efficient wastewater treatment applications.

Contact Information

For inquiries and orders, please reach out to us at sales@dstec.com.my. We're here to assist you with any questions or assistance you may need.

Your satisfaction is our priority.

Remark

We take pride in offering customized solutions to meet your unique requirements. Whether it's **altering sponge properties** or **adjusting size**, our tailor-made services ensure that you get the **perfect PVA sponge cube for your specific needs**. Your satisfaction is our commitment.