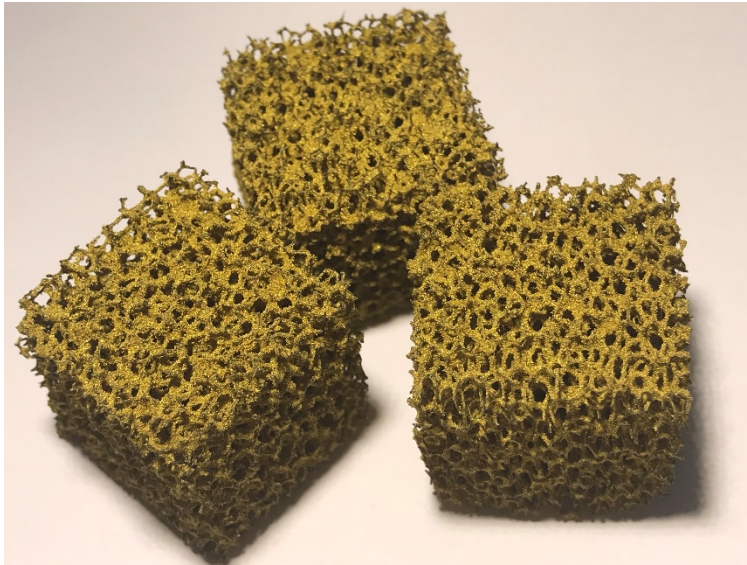


Episode 10 Show Notes – Are KDF Cubes in Your Toolbox?

This podcast is about Reticulated Foam and specifically KDF Reticulated Foam Cubes. They are manufactured by Foamulations. <http://foamulations.biz/>



- NSF Certified
- The base product is foam which is impregnated with medias such as KDF 55 & KDF 85; catalytic activated carbon; ion exchange resin; to name a few.

Background

KDF media is a copper zinc alloy which weighs 171 lbs. per ft³. It comes in metal drums containing one-third of a cubic foot. KDF requires a backwash rate of 30 gpm per ft². Softener resin is comparatively light at only 4 gpm per ft² and activated carbon is 8 to 10 gpm per ft². If backwash rates aren't high enough KDF will channel and pack in the bottom of a tank and solidify – like a penny. KDF Cubes solve this problem since they stay stratified in the media you blend them with.

KDF 55 removes or reduces chlorine and water-soluble heavy metals. It controls scale, bacteria, and algae, even in hot water. **KDF 85** removes or reduces iron and hydrogen sulfide odors from municipal or other water supplies. It also controls scale, bacteria, and algae.

Technical Information

- KDF cubes are sold by the pound.
- Reduces Delta P (ΔP) across the bed
- May eliminate need for backwashing



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Urbans Aqua Suggested Applications

- **KDF55/85 cubes can be used in tank systems with or without backwashing.**
 - **Activated Carbon** – Activated carbon can be a host for non-pathogenic bacteria that causes a black slime build up. KDF55 cubes inhibit the bacterial growth which causes the black slime and extends the life of the carbon.
 - Cubes can be added to the top of a carbon filter, directly on top of the carbon. Add them in a star pattern, top, bottom, left, right until the top of the bed is covered. For a standard size tank – 10” in diameter you would add 2 pounds.
 - Cubes can be put in a refillable cartridge. Suggested size is 4-1/2” by 10” (1.5 pounds) or 20” BB- Big Blue (3 pounds).
- **Water Softeners** - KDF cubes are effective in water softeners, however, the cubes won't last as long as the resin so replacement may be a challenge.
 - The cubes can be removed and replaced as they will rise to the top of the bed after backwash, so periodic replacement is recommended.
 - Changing out a BB cartridge is much easier than removing them from the softener. For a dealer this presents the opportunity for an annual maintenance call.

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