

Cerâmica Stéfani Flex

Source Protection	Safe Transportation	Sedimentation	Filtration	Disinfection	Safe Storage
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What is it?

The Cerâmica Stéfani Flex is a tabletop filter produced in Brazil by Cerâmica Stéfani S.A. The Flex setup sold to the international market includes one or two Stéfani Sterilizing Ceramic Cartridge(s), a float valve for each cartridge, two 6 L containers, a spigot tap, and the required hardware for installation. The ceramic cartridges (also called candles) are coated inside with colloidal silver and contain activated carbon.



Performance

Microbiological Effectiveness:

Parameter	Effectiveness
Bacteria	Very Effective (>99%)
Viruses	No independent tests
Protozoa	Very Effective*
Helminths	Very Effective*

*Assumption based on pathogen size. No independent tests.

Other Parameters

Effective for removing turbidity, but clogs easily with very turbid water.

Source Water Requirements

Not intended for turbid water (>5 NTU).

Capacity

Flow rate of 0.5–3 L/hour per ceramic candle cartridge. The filter can treat 6 L per batch (top and bottom containers both hold 6 L).

Lifespan

Each ceramic cartridge has a service life of 500 L or 6 months of use. The plastic components last longer.

Ease of Use & Acceptability

Operation & Maintenance

Users pour water into the top of the upper container and wait for water to flow through the filter into the lower safe storage container. Overflow is prevented by the float valve(s) in the lower container. Treated water can be accessed through the tap. When the flow rate decreases after some time, a scrub pad can be used to rub away a very small layer of the ceramic material.

Repair & Replacement

The ceramic cartridges are fragile and must be replaced if there are cracks or leaks, when they have treated 500 L, or when they have been used for 6 months (whichever comes first). Plastic parts are more durable but may need replacement.

User Considerations & Preferences

Safe storage is included with the filter (lower container). The filter should be kept out of sunlight to avoid degradation of plastic parts.

Feasibility

Availability

Produced and sold by Cerâmica Stéfani through local Stéfani distributors.

Cost

Varies but is usually around US\$35–60.

Size & Weight

26 x 26 x 26 cm (when packaged for shipping); weighs 1.2–1.5 kg, depending on number of candles.

More Information

Details and references: www.hwts.info/products-technologies/690a7147/ceramica-stefani-flex

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