

HINDROP

www.hindrop.com

FLUORINE FREE

eliminates fluoride in water

General Information

HINDROP is an adsorbent material based on natural zeolites that are modified with nanotechnology by a process that confers to the material a high capacity of elimination of fluoride ions present in the water.

The use of **HINDROP** ensures that the water for human consumption is defluorated obtaining a concentration below the maximum limits recommended by the sanitary authorities (WHO).

For its use it only requires the installation of **HINDROP** as a bed in a vessel sized for the initial fluorine concentration and the water to be treated. The contact of the fluoridated water with the bed causes **HINDROP** to catch the fluorine.

From this simple use results water suitable for human consumption.

Characteristics

HINDROP: unique features compared to other technologies

- High efficiency for any concentration of fluorine; without conditioning the water before
- Low cost
- Usable in domestic and collective solutions
- The presence of other elements or chemical compounds in the water to be treated does not diminish their ability to remove fluoride
- Efficiency with any pH value, turbidity, alkalinity or water temperature
- Does not leach other compounds in the water during the defluoration process
- No CO₂ emissions, because it does not consume electricity
- Doesn't use of complementary chemical dosages, so personal and environmental risks are eliminated
- It is a ZLD Liquid Discharge (ZLD) technology as it does not lose part of the flow to be treated in the form of rejection water or brine
- Its simplicity of operation means that it does not require trained personnel or with high qualification. HINDROP is available to the entire population
- It does not generate waste or polluting chemical substances during or after the process
- Manufacturing Green Chemistry that does not generate contaminating substances

HINDROP® is a patented product

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Simple, Healthy & Ecofriendly solutions powered by:



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Datasheet

Natural zeolite modified by nanotechnology that provides high capacity of adsorption of fluorine

Bed Volume minimum:	0,2 l/h · kg
Bed Volume maximum:	10,0 l/h · kg
Adsorption capacity up to 1,5 ppm:	0,59 mg/g
Adsorption capacity up to saturation:	0,89 mg/g

The volume of water treated to reach the saturation point of HINDROP is determined by the concentration of fluorine in the inflow.

Replace **HINDROP** in your device when you have accumulated the maximum volume of treatment.

Volume defluorated with 1 kg of **HINDROP** up to 1,5 mg / L, according to input fluorine

:

Fluoride input	Defluoration (l/kg)
7 mg F/L	84 liters
5 mg F/L	118 liters
4 mg F/L	147 liters
3 mg F/L	197 liters
2 mg F/L	295 liters

Recommended uses

The use of **HINDROP** is recommended in waters of human consumption that have a concentration of fluorine above 1.5 mg F / l

Removal of fluoride prevents dental fluorosis, skeletal fluorosis and other diseases in the human body by overexposure to water with a high fluoride content.

HINDROP can be used in household devices or communal solutions

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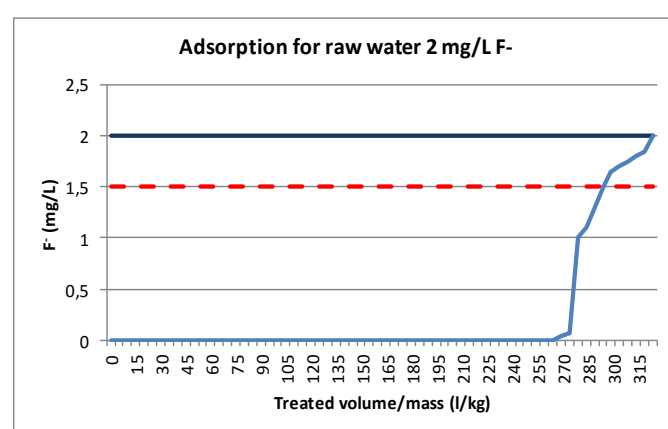
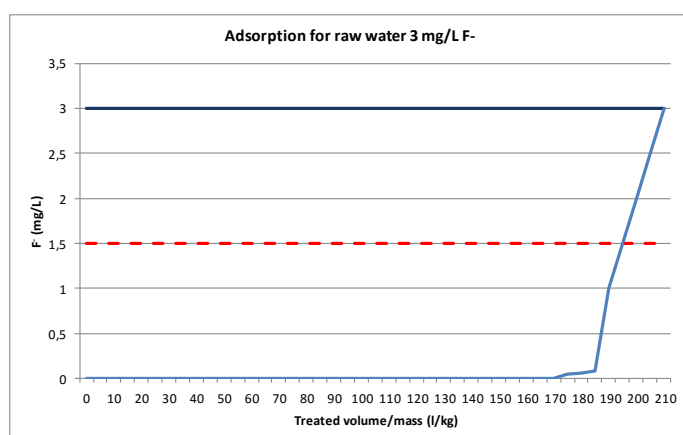
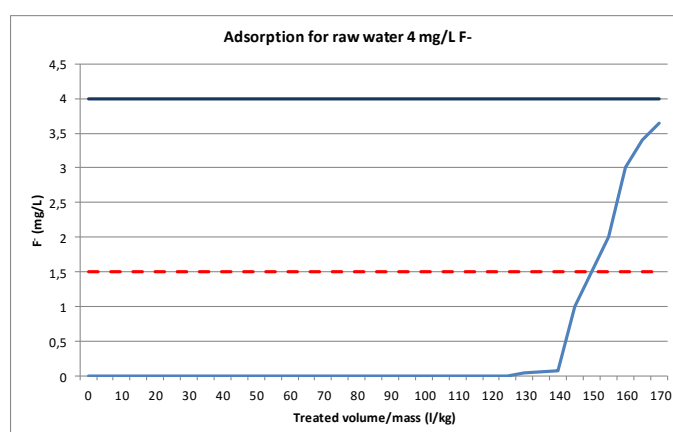
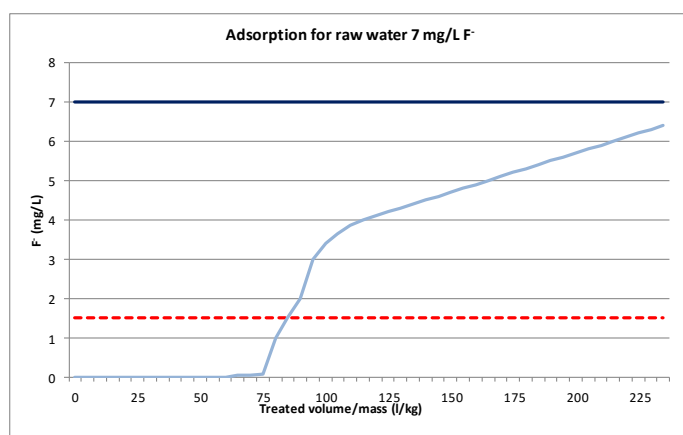
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Removal of fluorine according to its concentration of raw water

The total volume of water treated by **HINDROP** depends on the concentration of fluorine containing the raw water. This concentration determines the volume treated until its capacity exceeds the recommended limit of 1,5 mg F / L in the water for human consumption, as well as the total volume treated until **HINDROP** has totally saturated.

According to the concentrations in the supply water indicated in the following graphs, when the 1.5 mg F / L limit is reached, it is advisable to replace **HINDROP** with new material to ensure at all times that the water consumed complies with the recommendations of the health authorities

Some examples according to fluoride input



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