

FERARRIUM C Filter Media

FERARRIUM C is a filter media designed for water purification from turbidity, color, petroleum products, and mechanical impurities larger than 5 µm.

It is based on natural zeolite with various minerals, making it suitable for drinking water preparation, industrial cleaning (e.g., wash water treatment), and purification of industrial and wastewater streams. It is also effective in retaining oxidized forms of metals.



FERARRIUM C is recommended for use in both pressure and non-pressure systems.

Being 100% natural, it is eco-friendly, and its properties can be restored through a simple backwash lasting just a few minutes.

In addition to its filtration capabilities, **FERARRIUM C** functions as a cationic ion exchanger, demonstrating high ion-exchange selectivity for radioactive elements and heavy metals such as lead and cadmium. It also adsorbs barium, phenol, ammonium nitrogen, and, to a lesser degree, nitrates and nitrites. The media does not deplete during operation, has high contaminant retention capacity, and ensures filtration to required standards.

FERARRIUM C is especially effective when used alongside **FERARRIUM M**.

FERARRIUM C jest całkowicie pochodzenia naturalnego, dzięki czemu jest przyjazny dla środowiska. Wymaga jedynie kilku minut płukania wstecznego z odwróconym prądem wody, aby przywrócić swoje właściwości.

FERARRIUM C może pracować jako kationowy wymiennicz jonowy, charakteryzuje się wysoką selektywnością wymiany jonowej pierwiastków radioaktywnych, zdolnością sorpcji ciężkich metali nieżelaznych (ołów, kadm itp.), baru, fenolu, azotu amonowego, w mniejszym stopniu azotanów i azotynów.

Podczas pracy materiał nie jest zużywany, ma dużą pojemność zanieczyszczeń i doskonale radzi sobie z filtracją zgodnie z wymaganymi standardami.

FERARRIUM C jest szczególnie skuteczny w połączeniu z **FERARRIUM M**.

Advantages

- Pre-chlorination does not affect **FERARRIUM C** activity;
- A universal, lightweight, and cost-effective material;
- High filtration speeds reduce capital costs or increase the throughput of sand filters;

- High contaminant retention capacity extends the time between backwashes;
- Low pressure loss during high-speed filtration;
- Reduces operational costs when replacing quartz sand with FERARRIUM;
- Suitable for non-pressure filtration stations;
- Effectively removes suspended particles such as rust, silt, and organic matter larger than 5 μm
- Lightweight material reduces water consumption during filter backwash

Application Recommendations

- Filtration speed: 10–50 m/h;
- Backwash speed: 30–50 m/h;
- Backwash duration: 3–5 minutes;
- Layer expansion during backwashing from 30%;
- Minimum layer height: 40 cm for mechanical impurity filtration;
- Can be used in multilayer filters with other media;
- Usage conditions: pH range 4–12.

Composition: silicon, calcium, aluminum, potassium, iron, magnesium, sodium

Specific gravity, kg/m^3	2160 - 2250
Bulk density, kg/m^3	900
Color	White-green to green
Nonuniformity coefficient	1,2
Particle sizes: 0.3–0.7 mm, 0.7–1.4 mm, 0.7–2.0 mm, 1.5–3.0 mm, 2.0–5.0 mm (custom sizes available)	
Packaging: 25 kg bags \approx 27.7 litra. 40 bags per pallet (1000 kg total)	