KATALOX-LIGHT®

FROM SURFACE CONTACT TO WATER TREATMENT

Connecting iron-assisted PFAS capture with filter operation

A treatment result depends on more than the presence of mineral surfaces. Water chemistry, contact conditions and solids separation determine whether adsorption contributes to the finished-water outcome.

Illustrative filtration concept

CONTACT

Give water access to reactive surfaces.

Bed depth, flow and pore accessibility influence contact with the media and newly formed iron solids. Evaluate PFAS uptake at the actual operating conditions.

CHEMISTRY

Match the interface to the water.

pH controls surface charge. Phosphate and organic matter can change available sites. Different PFAS interact differently, so results should be recorded by compound.

RETENTION

Hold the loaded particles.

Katalox-Light combines catalytic iron and manganese treatment with fine-solids filtration. Where PFAS adsorbs onto retained iron solids, filtration completes that capture pathway.

BACKWASH

Account for what leaves the bed.

Washing removes collected solids and helps maintain filter operation. Include wash water and solids in the PFAS mass account. Backwashing alone does not establish PFAS destruction or renewed adsorption capacity.

MEASURE THE WATER. UNDERSTAND THE SURFACE. ACCOUNT FOR THE SOLIDS.

THE COMBINED-TREATMENT RECORD

- Individual PFAS: inlet, outlet and reporting limits
- Iron, manganese, pH, alkalinity and turbidity
- Flow, treated bed volumes and backwash residuals

SCIENTIFIC BASIS

Iron-hydroxide research supports a possible adsorption mechanism. Katalox-Light-specific PFAS removal, capacity and service life require measurements in the selected treatment configuration.

For professional water-treatment companies, OEMs and municipal-treatment specialists.

Based on the Katalox-Media technical report and its cited mineral-adsorption research.

WATCH WATER GmbH
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FOR PROFESSIONAL WATER-TREATMENT COMPANIES, OEMS AND MUNICIPAL-TREATMENT SPECIALISTS. BASED ON THE KATALOX-MEDIA TECHNICAL REPORT AND ITS CITED MINERAL-ADSORPTION RESEARCH.

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