

WATER TREATMENT CAN *BREATHE* AT LAST

A REVOLUTION IN FLUORIDE & HEAVY METAL REMEDIATION

INTRODUCING

CATALYTIC CARBON MG™

Next-Generation Metal-Organic Framework (MOF)
Advanced Hybrid Adsorbent

REMOVES
TOXIC
CONTAMINANTS
EFFECTIVELY

F⁻
FLUORIDE

Pb
LEAD

As
ARSENIC

Cd
CADMIUM

Cr
CHROMIUM

FROM BURDENED
TO BREATHING FREE

- ✓ High-Affinity. High-Capacity.
- ✓ High-Performance Relief.

WHY IT'S A GAME CHANGER



REVOLUTIONARY Fe-Mg MOF
Bimetallic sites provide ultra-strong affinity for fluoride and heavy metals.



SUPERIOR PERFORMANCE
Up to 400% more capacity than traditional media with faster removal kinetics.



WIDE pH TOLERANCE
Performs reliably in natural water pH 5.5 – 8.5 without extensive pre-treatment.



CLEAN & SAFE SOLUTION
No chemical sludge. Zero leaching. Environmentally responsible.



LOWER COSTS. HIGHER VALUE.
Smaller footprint, longer service life, reduced operational costs.

CLEANER WATER. HEALTHIER PEOPLE. STRONGER FUTURE.



PROTECTS HEALTH

Removes excessive fluoride to prevent dental & skeletal fluorosis.



BOOSTS PLANT EFFICIENCY

Higher capacity & faster breakthrough for smaller equipment & lower capex.



BUILT FOR SUSTAINABILITY

Advanced technology for a cleaner planet and safer communities.



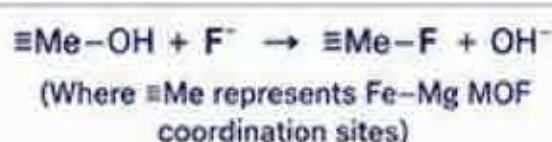
BETTER WATER. BETTER LIFE.

Reliable, safe drinking water for every generation.

FLUORIDE CAPTURED SAFELY & PERMANENTLY

REVOLUTIONARY TECHNOLOGY

Iron (Fe) and Magnesium (Mg) sites in the MOF structure create a powerful positive electrostatic field that selectively binds fluoride ions through strong surface coordination—locking them in permanently.



PROVEN PERFORMANCE

FLUORIDE ADSORPTION CAPACITY (mg/g)

ADSORBENT MEDIA	FLUORIDE CAPACITY (mg/g)	RECOMMENDED pH RANGE	ATTRITION RATE (%)
CATALYTIC CARBON MG (WATCH WATER)	14.5 – 18.2	5.5 – 8.5	< 0.5%
Standard Activated Alumina (AA)	2.1 – 4.5	5.5 – 6.5	> 3.0%
Standard Bone Char Media	1.5 – 3.0	6.5 – 7.0	> 5.0%
Generic Iron Oxide Adsorbents	4.0 – 6.2	6.0 – 7.5	> 2.0%

Influent Fluoride: 5.0 mg/L | pH: 7.2 | Temperature: 20°C

KEY SPECIFICATIONS

Total Specific Surface Area	> 2000 m ² /g
Bulk Density	510 – 540 kg/m ³
Particle Size Range	8 x 30 Mesh (Standard Grade)
Moisture Content	< 4.5% by weight
Hardness / Abrasion Index	> 95%

ENGINEERED FOR EXCELLENCE



STRONG & SELECTIVE FLUORIDE BINDING



DURABLE & LONG LASTING



FAST KINETICS LOWER EBCT



GREEN TECHNOLOGY ZERO SECONDARY POLLUTION



NO CHEMICAL SLUDGE ZERO LEACHING



LOWER OPEX HIGHER ROI

WIDE RANGE OF APPLICATIONS



Municipal Water Treatment Plants



Industrial Wastewater



Rural & Community Water Systems



Point-of-Use / Point-of-Entry

THIS IS MORE THAN A PRODUCT
IT IS A MOVEMENT FOR SAFE
WATER FOR ALL!



ADVANCED SOLUTION.
PUREST IMPACT.

SAFE WATER TODAY. HEALTHY GENERATIONS TOMORROW.

LET'S BUILD A FLUORIDE-FREE FUTURE TOGETHER.

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