

NEXT GENERATION FILTRATION MEDIA

ZAS PureFlow™ Super Sand is an advanced filtration media produced by coating individual silica sand particles with our proprietary graphene formulation and then drying them to create a free-flowing, granular media.

The graphene coating dramatically increases the surface area and adsorption potential of the sand, helping capture a wide range of contaminants and color-producing substances from water.

ZAS PUREFLOW™ SUPER SAND



Each sand particle is coated.
Every drop of water benefits.

KEY BENEFITS



SUPERIOR CONTAMINANT REMOVAL

The graphene-coated surface provides additional sites for physical filtration and adsorption of contaminants and color-producing substances.



HIGH SURFACE AREA CONTACT

Millions of coated particles create extensive surface interaction within the filter bed, increasing contact time as water flows through.



100% METHYLENE BLUE REJECTION RATE*

In independent testing, ZAS PureFlow™ Super Sand achieved a **100% rejection** rate of methylene blue from water.



POTENTIAL FOR LONGER RUN TIMES

Enhanced adsorption capacity may extend time between filter changes or maintenance, depending on application.



DESIGNED FOR EXISTING SYSTEMS

Can be used as a replacement or additive layer in conventional sand and multimedia filtration systems.



A SUSTAINABLE CHOICE

Graphene inhibits bacterial growth, helps control biofouling, and may reduce the need for chemicals in many applications.

** Performance will vary depending on water quality and system configuration. Testing is recommended.*

METHYLENE BLUE FILTRATION DEMONSTRATION

Methylene blue challenge water was passed through a bed of ZAS PureFlow™ Super Sand.

100% REJECTION RATE ACHIEVED.



Methylene blue challenge water.



Water passed through a bed of ZAS PureFlow™ Super Sand.



Filtrate is crystal clear.



Demonstrated 100% rejection of methylene blue in water using ZAS PureFlow™ Super Sand.

POTENTIAL APPLICATIONS

- ✓ Municipal & Industrial Water Filtration
- ✓ Wastewater & Process Water
- ✓ Stormwater & Runoff Filtration
- ✓ Agricultural & Irrigation Water
- ✓ Aquaculture & Recirculating Systems
- ✓ Pools, Ponds & Other Water Systems



Pilot testing is available.
We invite water treatment professionals to evaluate ZAS PureFlow™ Super Sand in their systems.

CONTACT US

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ADVANCED
GRAPHENE
TECHNOLOGY



HIGH SURFACE AREA &
ADSORPTION POTENTIAL



DESIGNED FOR
PERFORMANCE
& RELIABILITY



SUPPORTING
CLEANER WATER
SOLUTIONS