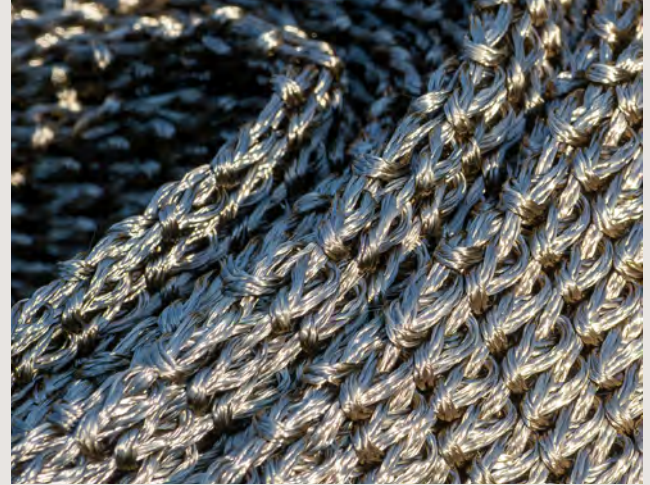


ExoFlex Oyster Bags

Durable and Plastic-Alternative Habitat Restoration and Protection



APPLICATIONS

ExoFlex Oyster Bags can be utilized in the same way as traditional oyster bags and are designed for application in living shorelines, oyster restoration projects, and small-scale retaining walls.

INSTALLATION

The installation of ExoFlex Oyster Bags is as simple as filling the bags with oyster shells or rocks, tying them off with stainless steel zip ties (provided), and positioning them into a mound structure at the project site.

Often, a group of volunteers can complete the oyster bag filling in a streamlined installation process.



KEY BENEFITS

Exceptional Strength and Durability

Natrx uses basalt fibers to create durable oyster bags for harsh environments with high tidal fluctuations, temperatures, and salinities.

Plastic Alternative

ExoFlex Oyster Bags replace the use of plastic mesh bags for oyster restoration and shoreline protection.

UV and Flame Resistant

ExoFlex Oyster Bags are UV stable and flame resistant due to the basalt fibers, allowing them to withstand sunlight and time without degrading.

Marine Friendly Material

Basalt is the predominant mineral in the oceanic crust. It provides a natural, non-toxic substrate for the attachment of marine life and sessile organisms such as oysters.

Reducing Field Labor and End-User Costs

Natrx ExoFlex Oyster Bags simplify installation and don't require special equipment. ExoFlex Oyster Bags are durable, long-lasting, and lead to lower maintenance costs.

ExoFlex Oyster Bags

SPECIFICATIONS

Material

Uncoated Basalt Fibers, Stainless Steel Zip-Ties

Strength

Basalt fibers have a 2-3 times higher tensile strength than steel, meaning they provide greater strength per unit of weight.

Density

Basalt fibers have a lower density (~2.7g/cm³) compared to steel (~7.85 g/cm³), making basalt fibers significantly lighter than steel.

Mesh Size

Knots spaced approximately 1" apart (~25mm) which allows the bags to expand around fill material.

Fill Capacity

ExoFlex Oyster Bags can support 70lbs for at least 10 minutes. For a typical project, bags would be filled to 20—30 lbs.

Bag Dimensions

Empty/Flat: Length: 23" x Width: 4.5"

Filled: 5 gallons oyster shells, Length: 20" x Width: 12" x Height: 6"

BACKGROUND

Abundance

Basalt, the most common type of volcanic rock found in Earth's crust, makes up the majority of the ocean floor, resulting in an abundant supply of this rock material.

Processing

Basalt is blown out into filament, converted to roving (untwisted strands of fibers), converted into yarn, and knitted to basalt bags.

Impact

Basalt fibers are environmentally neutral, being made from natural rock and not disrupting the ecosystem in which they are placed.

Safety

Basalt fibers are a safer alternative to plastic and other rock fibers, such as asbestos, which can have environmentally hazardous and carcinogenic effects.



GET STARTED

To schedule an information session and learn more about ExoFlex Oyster Bags, please email Drew Keeley (drew@natrx.io).

ORDERING PROCESS

After your information session, Natrx will send you a quote with project-specific pricing information.

To place an order with Natrx, please call or email ExoFlex Specialist, Drew Keeley (919-239-0747, drew@natrx.io)

Be prepared to provide the name of your organization, your organization's shipping and billing address, and the number of ExoFlex Oyster Bags needed for your project.