

Biomicrogel® BMG-P1

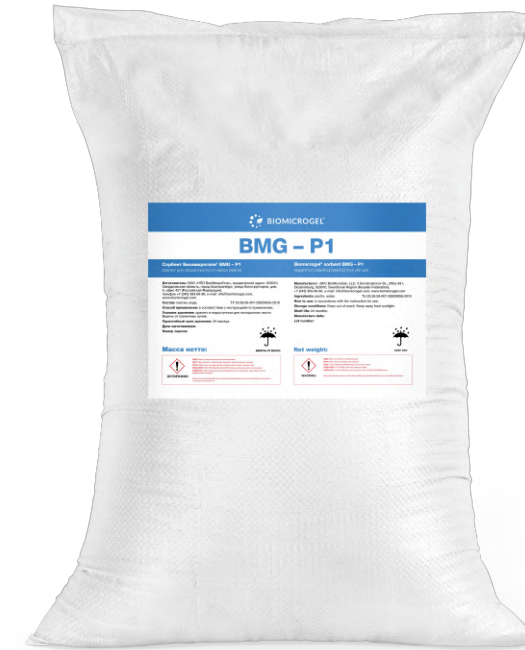
Sorbent for oil and petroleum product collection from water surface



BIOMICROGEL® BMG-P1

The **BMG-P1** sorbent is intended for oil contamination collection from water surface, namely:

- Oils;
- Petroleum and its derivatives;
- Oil spillage collection, including those in water column.



Bags
25 L

SOLUTIONS

BY MEANS OF BIOMICROGEL® BMG-P1 SORBENT



Oil and petroleum product
spill cleanup

OUR CLIENTS:



DESCRIPTION AND OPERATING PRINCIPLE OF BMG-P1 SORBENT

Biomicrogel® is submicron polysaccharide particles obtained from by-products of agrifood industry: apple and beetroot pulp, possessing reversible solubility.

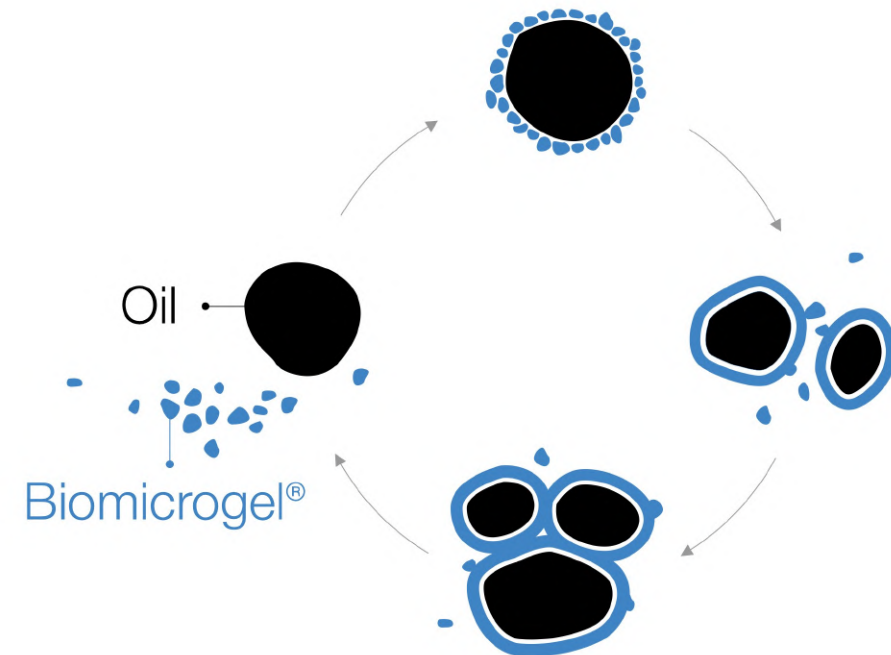
Biomicrogel® effectively captures mineral and vegetable oils, animal fats, oil and petroleum products in water.

BMG-P1 SORBENT is an environmentally friendly reagent made from natural polysaccharides that encapsulates petroleum products and makes it easy to separate them from water. The sorbent is suitable for water purification from all types of oils, petroleum and its products.



CHARACTERISTICS

- Non-toxic and eco-friendly. Fully biodegradable.
- Sorption capacity > 50
- Localized impurities are easily removed from water
- Works at temperatures down to - 7°C
- Reverse separation from the collected impurities and re-use of both the product and the material obtained from the collected impurities are possible.



WORKING SOLUTION PREPARATION

Biomicrogel® BMG-P1 sorbent should be diluted in water to a solution at a concentration of 1.0-2.0%, using a static mixer or other suitable mixing equipment allowing for a homogeneous solution.

APPLICATION

Biomicrogel® BMG-P1 sorbent is applied to the water surface using sprayers. Then the jellied contaminants are removed from the water surface by any available means (fine-meshed screen, mesh shovel, scoops, etc.)

When cleaning water from petroleum products, **Biomicrogel® BMG-P1** sorbent breaks down the surface layer of petroleum products and encapsulates the petroleum products inside the **Biomicrogel® shell**. Encapsulation occurs due to change of the double electric layer charge on petroleum product surface. Oil contaminant is enclosed in a shell that firmly holds the contaminant inside.

NPO Biomicrogel LLC can provide recommendations on the necessary preparation and dosage of **BMG-P1**.

RESULT MEASURING METHOD

Visual evaluation. No oil and petroleum product film on water surface.

STORAGE

The product should be stored in a cool, dry place. All protective packaging must be preserved until the product is completely used.

The warranty period for dry storage is 24 months from the manufacture date.

UTILIZATION

Utilization of the collected used **Biomicrogel® BMG-P1** sorbent with petroleum products encapsulated therein is carried out in accordance with the current legislation, FCCW Code 4 06 350 01 31 3 "Surfaced petroleum products from oil traps and similar structures" is applicable.

COMPETITIVE ADVANTAGES

	BIOMICROGEL® BMG-P1 SORBENT
High efficiency	Removes even the iridescent film
Speed rate	Instantly reacts and encapsulates petroleum products
Versatility	<ul style="list-style-type: none"> • Is applied and collected using a wide range of available devices • No secondary contamination
Processability	Does not affect chemical composition of the collected oils and petroleum products. Allows to completely restore the collected petroleum products, and can also be reused.
Biodegradability and eco friendliness	Obtained by complex processing of plant vegetable raw materials, completely environmentally safe. for the environment Does not burn or, does not stick to birds, animals, and infrastructure.
Uniqueness	The technologies are patented in more than 50 countries around the world

ABOUT COMPANY



Operates both in Russia and abroad:
South-East Asia, the European Union, the USA, Australia, and Brazil.



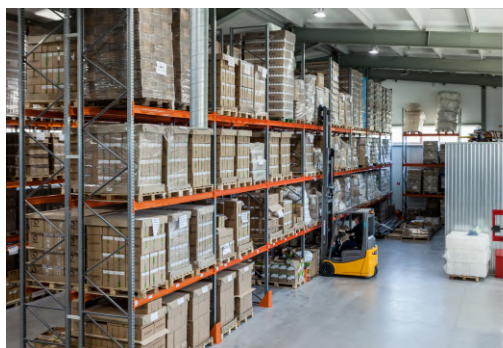
Developer and patent holder of solutions based on microgels under **Biomicrogel®** brand
(>60 patents, >50 countries)



2 production sites, 4 chemical laboratories and an experimental site.
Own an R&D facility, engineering department and technical support service.



Resident of the Skolkovo Innovation Center (Moscow, Russia)
Resident of "Nadezhdinskaya" Priority Development Area (Vladivostok, Russia)



ALL BMG PRODUCTS

- [Biomicrogel® BMG-P1 sorbent](#)
- [Biomicrogel® BMG-P2 coagulant](#)
- [Biomicrogel® BMG-C2 flocculant](#)
- [Biomicrogel® BMG-C3 soil and sand cleaning agent](#)
- [Biomicrogel® BMG-C4 oil extraction agent](#)
- [Biomicrogel® BMG-C6 solid surface cleaning agent](#)
- [Spilltex® dip net for petroleum products collection from water surface](#)
- [Spilltex® filter cloth for laying sumps](#)
- [Spilltex® filter barrier cloth for shallow rivers](#)
- [Spilltex® universal filter cloth](#)

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ALL BMG SOLUTIONS

- [Industrial and storm drains cleanup from oils, fats and petroleum products](#)
- [Coolant processing in metallurgy and pipe rolling](#)
- [Coolant processing in mechanical engineering](#)
- [Performance gains in vegetable oil extraction](#)
- [Oil and petroleum product spill cleanup](#)
- [Clean up of solid surfaces from oils and petroleum products](#)
- [Soil washing from petroleum products](#)
- [Purification of bottom and produced water](#)

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