

October 2023

PRESS RELEASE

KOB



KOB: Innovative water filtration solutions



SANDBAG® by KOB: the circular economy to serve water conservation

Designed at a time when water resources were abundant, today's water treatment processes almost systematically incorporate filtration techniques. These systems are no longer suited to sober management of our resources, as they consume large volumes of clean water in their operating cycles.

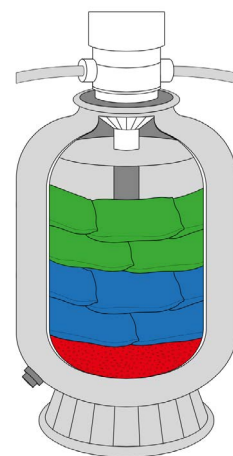
KOB : an innovative process !

The founders of KOB have conceived and designed a filter media made from 100% recycled materials.

Derived from glass collected mainly from companies, the industrial process developed enables much less energy-consuming recycling in the remanufacturing of new glass containers. It incorporates the glass implosion technique, which, unlike crushing, removes the labels stuck to the bottles, enabling a specific selection of the desired granular material to be obtained. The packaging is equally innovative, using rPET nets (derived from recycled plastic bottles) to create the famous SANDBAG®.

The filtration technique developed avoids clogging of the filter media and means that SANDBAG® in all sand filters on the market present in a wide range of applications : swimming pool filtration, agricultural irrigation, industrial effluent treatment systems.

In addition to a new way of conceiving the recycling of glass packaging waste through a unique process, the SANDBAG® filtration solution offers two major advantages: significant water savings by avoiding the backwashing necessary to clean sand filters (90% water savings in swimming pool sand filters). They can be reused over and over again simply by rinsing them seasonally with clean water before replacing them in the filter. A small revolution for pool professionals, distributors and the planet !



<https://kindofblue.fr>

GCC - François Flechter – flechterfrancois@kindofblue.fr – WhatsApp : + 973 390 02 248

France – Frédéric NAVALLON – navallonfrederic@kindofblue.fr – Mob : +33 (0)7 82 72 75 04

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Founded in 2019, Toulouse-based KOB sees itself as an industrial company specialising in recycling glass for use in innovative water filtration solutions. Behind this ambitious project are engineers, financiers and marketing specialists who share the same conviction: to preserve natural resources while developing a circular economy model around the glass recycling industry. Because glass is one of the world's most environmentally damaging materials, and because its recycling deserves to be rethought, it is at the heart of the concerns of the KOB teams. With this in mind, the company came up with the innovative filtration product SANDBAG®, the result of three years of research and development. Conventional filter media, used in sand filters found in the vast majority of water treatment plants, require frequent backwashing to clean them and prevent clogging. With the SANDBAG® solution, the need for backwashing is reduced or even eliminated. Millions of cubic meters of water can be saved by extending the use of KOB's solution to the many sectors concerned by this innovation: individual and collective ponds, agricultural irrigation, industrial water recycling, etc.

The approach is both local and eco-responsible, since the glass is collected from companies and industries that are not part of the traditional recycling circuit. As for the SANDBAG® production unit, it has been deliberately designed so that it can be reproduced as close as possible to the collection areas in France and around the world, as part of a short circuit within the cities themselves.

After installing its world first recycling unit to produce its SANDBAG® in France, KOB addresses the International market where it hopes to conclude manufacturing agreements under licence for its filter product with strategic partners. From 2024, its international ambitions will be focused on territories where solid waste recycling and water resources are part of national sustainable development strategies.



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