

Categorie Premio

Accessibilità

Sostenibilità

Qualità della vita

Product Name BIOWASHBALL®

Designer EMKER SA

Company Name EMKER SA

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Description of innovation social values

- product category
- formal and functional features
- problems solved by innovation
 - user
 - field of application

BIOWASHBALL® is a washing ball to be used in laundry machines in order to replace detergent. At the moment, no accurate category is defined for such a product.

Based on Far Infra Red technology, the ceramics inside the BIOWASHBALL are turning the water Ph. Thus, the washing power of the water is increased to remove stains. Others ceramics inside the BIOWASHBALL have a very strong antibacterial effect to remove odors.

- 1 - Detergents have quite the same effect, but a lot of chemical molecules remain on the line and may cause skin allergies. Thanks to dermal effect, these chemical molecules are passing into the blood.
- 2 - On the same way, chemical agents of detergents are rejected into ground water causing a lot of pollution.
- 3 - Most of detergents require a temperature of 90°C for cotton. Using BIOWASHBALL allows remaining at 50°C, even for cotton. Users may reduce the energy consumption.

User's: all people in the world using a laundry machine.

Description of technical features

- operations
- technology

The BIOWASHBALL ceramics contain TM micro organisms, and have the ability to restructure water beneficially. We have never been able to understand fully how micro organisms can survive the 1,000 up to 1,300°C firing temperatures generated while producing our ceramics. These organisms were first discovered in Japan and given the "EM - Effective Micro organisms" denomination. Thereafter, South Korea developed this technology further and gave the TM name "Total Effective Micro organisms", combining the ground/soils fermentation effects to increase the micro organism's capabilities

Dimensions

Ball diameter: 10 cm

Materials

½ spheres are made of plastic (food quality grade), with natural pigments inside plastic. No glue.
Ceramics

Certifications

The Korean Testing & Research Institute made all required test to ensure:

- level of detergency of the BIOWASHBALL.
- absence of PBB and PBDE (Polybrominated Biphenyls or diphenils)
- absence of heavy metals (Pb, Cd, Hg, Cr)

Benefits for environment

- No pollution of ground water
- Energy economy

Benefits for human being

- No trans dermal effect, then no allergy, no blood pollution.
- Savings (depending on Countries: from 500 up to 1'000.00 €: detergent costs, softener costs, energy costs)
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