

## New generation of smart packaging



**DR**  **NEST**



Global PrimLab is a company that specialises in research and development of beneficial active principles for health and are environmentally friendly.

PrimLab has set itself the goal of being the most innovative company in the fields of environment, containers, packaging, food and furthermore, we are also fully involved in minimising the environmental impact.

After several years of research, Primlab Global offers a novel product, recently patented, with the new generation of functional and ecological intelligent and microparticles.

We have developed a 100% natural additive, called Drynest, to be used in all types of products made of cellulose pulp and polystyrene. The product is added as an additive during the production of cellulose pulp, per surface or by intrusion, and during the manufacturing of plastics, etc.

Drynest is created with a formulation based on Eco-intelligent micro particles, self regulating depending on environmental conditions, designed to give maximum protection and in turn to give maximum guarantees to consumers, furthermore, its durability is permanent due to the mineral composition and easy to recycle.

Drynest regulates the relative humidity of the product,

## *Intelligent micro particles*



conferring resistance to fire (flame retardant property, depending on the additive % applied) it gives greater security, also it acts as a thermal insulator and protects the contents from harmful microbes growth for health risk and gives robustness to the package, as being natural, it is ecological. All these properties make the products remain in good condition for human consumption.

Drynest is formed by chemical elements that form cation cavities that interact with oxygen atoms, where the cations can be of several chemical elements and share the oxygen atoms with other cavities. These cavities, together with the other natural chemical elements, make the product acquire a unique microporosity.

Drynest increases the value of your product by a 20% approximately, because the monitoring parameters of moisture, heat and microbial growth, make the product remains in better condition for longer time.

Drynest gives a giant step in safety of packaging, since the natural components can withstand high temperatures making long burning retarding time and giving an extra layer of safety in case of fire.

Drynest offers a high technology without having to change manufacturing process and practically without noticing the cost in the packaging.

## *Some products applications*



## *Innovation and development at consumer service*

The potential market of Drynest patent is as broad as infinite, as there are different cellulose containers available on the market such as: cookie boxes, tobacco boxes, medicines boxes, food supplements boxes, technological equipment boxes, transport boxes, paper kraft bags (shopping bags in supermarkets), bakery bags, packaging for baked food, wines boxes, and not to mention the application in polyethylene containers, for example fruits trays, meats, cold cuts and as expanded polystyrene panels for the construction sector, etc

*"Using Drynest is advanced technology,  
sustainable, ecological and environmentally  
friendly"*

## *Characteristics*

- 100% Ecologic
- Humidity regulator
- Protection against fungi
- Fireproof 1600° C
- Prevents the growth of microorganisms
- Keeps products fresher for longer
- Thermal insulator







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