



# New technology for Packaging and Storage



# New generation of packaging and smart packaging

The world of packaging is constantly seeking new materials that provide competitive advantages.

PrimLab, aiming to create products that are beneficial to both health and the environment, presents **Drynest**: an innovative patented blend which is added in the process of manufacturing packages made with cellulose pulp and polymeric materials, providing better performance and guarantees of preservation and safety .

**Drynest** is a 100% natural, mineral, additive blend of intelligent nanoparticles, capable of regulating

the relative humidity inside a container, acting as a thermal insulation and protecting the contents of the proliferation of harmful microbes. Due to **Drynest** the contents are kept in optimum conditions for consumption for longer, increasing its value.

**Drynest** adds significant value to the safety of containers and storage facilities by being able to withstand high temperatures (+ 1600 C), leading to a significant delay in the combustion time in case of fire.

## The packaging of the future

- ▣ Regulates moisture, thermal insulation, antimicrobial and is fire resistant
- ▣ Can be used in food packaging
- ▣ Application in carton, paper and polymer materials
- ▣ Does not alter the basic properties of materials
- ▣ Avoids the use of silica gel type moisture regulators
- ▣ 100% natural mineral formulation



Humidity regulator



Thermal insulation



Fire-resistant up to  
1600 ° C



100% Eco-Friendly

# Types of Applications



**Regulates humidity and prevents temperature changes**



**Keeps food as freshly baked**



**Generates microbial protection**



**Crisp bread for longer**

The **Drynest** patent has a wide range of applications, for example:

Boxes of cookies, tobacco boxes, medicines, food supplements, boxes for technological devices, boxes for transportation, Kraft paper bags (grocery shopping bags), bakery bags, freshly baked food packaging, wine boxes and polyethylene

containers, for example: fruit trays, meats, sausages, as well as expanded polystyrene panels for the construction sector, etc.

The conservation and durability of the products increases the value to the consumer, and this fact makes **Drynest** a great economic and unique opportunity for any company in the sector.





**Drynest** is a product of PRIMLAB GLOBAL S.L., a company dedicated to the research and development of active ingredients beneficial to health and the environment.

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