

Lock 3

Innovative Hygiene Technology for Flexible Packaging



New Hygiene Benchmark for Laminates and Pouches

The antimicrobial lacquer Lock 3 reduces the germ load (bacteria, viruses), especially on laminates and pouches, by up to 99.99 %. This means that hygiene gaps can be closed and the possibility of germs spreading on flexible packaging surfaces can be significantly reduced. In pandemic times and beyond.

The Active Principle*

Hygienically clean with light and air

Lock 3 works on the basis of natural photocatalysis, hygienically clean with light and air. Daylight or artificial light is sufficient for a patented molecule to activate the ambient oxygen. This creates singlet oxygen, which washes around the cell envelopes of the germs and thus destroys them. Very simple, but effective.

The Fields of Application

Extensively applicable

Lock 3 is suitable for a wide variety of laminates and pouches in the food, non-food, pet-food and pharmaceutical sectors.

- Wet products
- Dry products
- Pasteurization applications
- Retort applications
- Sustainable packaging made of mono or polyolefin materials



* tested by independent institutes according to ISO 21702 (mod.) and ISO 22196 (mod.) against germs (viruses, bacteria)

The Properties

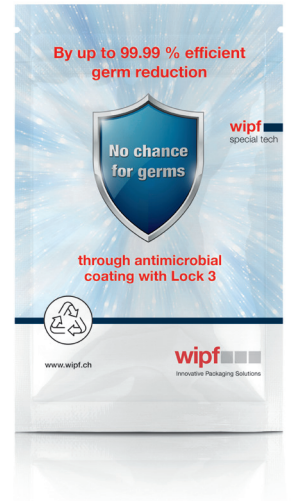
Impressively versatile

- Efficient germ reduction on pouch surfaces of up to 99.99 %
- Regulatory tested
- Approved for indirect food contact
- Matte and glossy appearances possible
- Can be used with digital, flexo and gravure printing
- Active principle tested by independent institutes according to ISO 21702 (mod.) and ISO 22196 (mod.)
- Also effective, for example, against the group of coronaviruses

The Advantages

Free from...

silver	+
nanoparticles	+
biocides	+
toxic or mutagenic components	+
odor	+
aerosol formation	+





The Added Value

Hygienic, effective, sustainable.

- + Pouches with Lock 3 antimicrobial coating remain hygienically clean
 - on the shelf and in use at home
- + Transmission of germs (viruses, bacteria) via the outside of the bag is significantly reduced
- + Continuous and long-lasting self-degerminating effect
- + No impairment of the recyclability of bags and films with Lock 3 coating
- + No formation of resistances
- + No release of chemicals into the environment
- + Self-degerminating effect on wet and dry surfaces
- + Suitable for retort applications

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