

FIG ION PROTECT

PROTECTED FROM WITHIN

Our FIG white dispensers are protected from within, with our ION Protect anti-bacterial additive.



What is ION Protect?

ION Protect is a Silver zinc anti-bacterial formula added to the FIG white dispenser range at the manufacturing stage.

The ION Protect formula has been developed from the combination of an inorganic ion-exchanger and the silver & zinc ions with strong bactericidal abilities. It is a totally new inorganic anti-bacterial agent which has a broad-spectrum of anti-bacterial properties.

Compared with organic anti-bacterial additives, the ION Protect additive has a higher temperature resistance, better safety and longer-term sterilization effect against bacteria and Mycetes in a wider range of bacteria types.

Since ION Protect is made of very stable physical and chemical properties, it causes no damage to the production process, solving discoloration and migration problems often common where old types of silver anti-bacterial additives were involved.

Our ION Protect formula is suitable for plastic injection or extrusion processes, as well as super thin processes like blow-moulding, films and fibres. As it is an additive in the manufacturing process it is scratch resistant as the anti-bacterial properties go right through the product, not just on the surface.

HOW DOES ION PROTECT WORK?

ION Protect is made with nano Silver particles (Ag⁺) & Zinc which kill bacteria when they oxidize and release ions, by penetrating or attaching to the cell membrane.

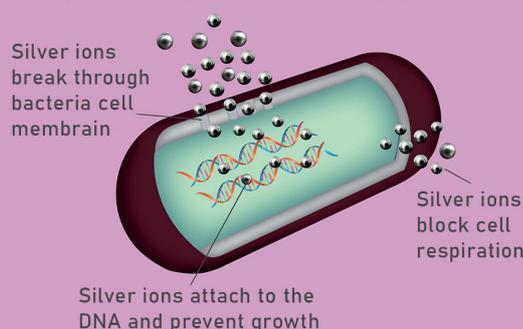
By disrupting the cell membrane of bacteria, the structural integrity is compromised, causing catastrophic structural failure, ultimately leads to their elimination.

Once the bacteria are eliminated, the Ag⁺ and Zinc particles remain active and continue to kill other bacteria by repeating the process.

FEATURES OF ION PROTECT:

- It is a broad-spectrum anti-bacterial additive with a high safety and long-term sterilization.
- It is harmless to the human body, it is a non-irritant and non-toxic.
- It has a high chemical and thermal stability. It can resist temperatures up to 300°C, with no discoloration when used with many plastic resins and almost no impact on material processing.
- Long-life anti-bacterial properties means it could be active with high polymer material permanently.
- It is acid and alkali resistant, with great durability and a slow release, which ensures it is effective for many years.
- Effective on a wide range of bacteria types (up to 99% of escherichia coli, staphylococcus aureus and Candida albicans).

How Silver ions kill bacteria:



Look for the ION Protect symbol

