

# ANTIMICROBIAL ALUMINIUM TUBES



## DESCRIPTION

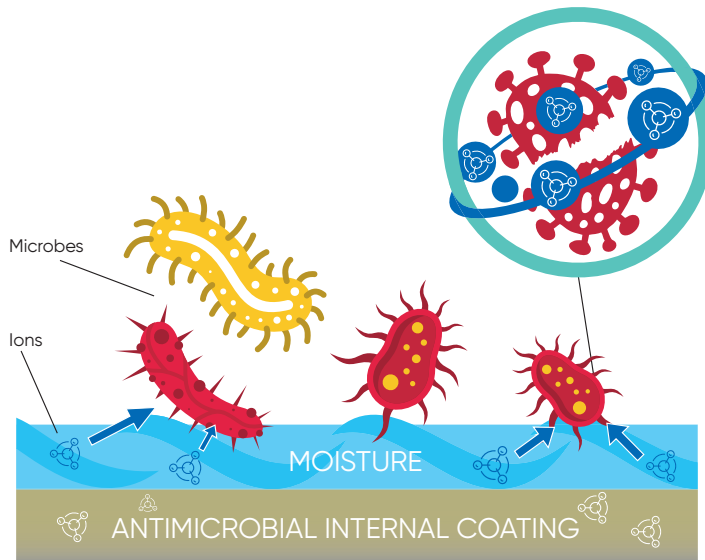
The additive in the protective internal coating is released when it comes in contact with moist fill goods. The coating works effectively against bacteria, biofilm and moulds. Thereby, our tubes actively contribute to a germ-free and safe product and prolong its shelf life.

Safety for the consumers always comes first. Thus we oppose the use of nano-silver, triclosan or other organic antimicrobial additives with health and environmental concerns.

The additive is not migrating into the filling. The internal coating conforms to foodstuffs regulations. The included additive is approved by the EFSA and FDA and complies with the European Biocidal Product Regulation.

## FUNCTIONALITY

The silver ions embedded in the material substrate are released when they come in contact with ambient moisture. The ions negatively affect the metabolic system of primitive organisms so that they are no longer able to reproduce and perish.



## TECHNICAL DATA

The antimicrobial internal coating is available for all our aluminium tubes. An overview about all possible specifications for our aluminium tubes can be found online in the data sheet on our product site aluminium tubes.

## YOUR ADVANTAGES

- Works effectively against bacteria, biofilm and moulds  
(>9999% of micro-organisms are defunct within 24 hours after filling\*)
  - Lasting antimicrobial effect for up to 10 years (according to additive manufacturer)
  - No migration of additive into the fill good
  - Food conformity according to EC 1935/2004 and FDA 21 CFR 175.300 & 21 CFR 174-186
  - Complies with the European Biocidal Product Regulation BPR, Nr. 528/2012
  - EFSA and FDA-approved, EPA registration of active components
- Prolonged shelf life of the product
- Less preservatives needed
- Additional sterilisation of the product might be unnecessary

\*Tests were performed with  
Escherichia coli and Staphylococcus aureus

## OUTLOOK

Together with our partners we are also working on an antimicrobial external lacquer. With this innovation, products can hygienically reach home from the shop, despite many touches and contacts.

