

# MASTERBATCH ANTIBATTERICO

## ADM-BACT-24-FCE



### CARATTERISTICHE

Name:	Masterbatch BACT-24-FC-EVA
Code:	ADM-BACT-24-FCE
Ufi:	CS01-60UK-Q00Q-ES7T
Food contact:	Yes
Compliance with art.95:	Yes, Pt. 2, 4, 7, 9.
Degree of danger:	See MSDS
Uses:	Industrial Use
Active ingredients:	Active substance in a biocide
Revision:	10.0
Extrusion temperature:	max 500°C
Update date:	15/12/2023

#### Abstract:

It is a mixture composed of completely insoluble additives in water with zero migration on EVA basis. The mechanism of action of ADM-BACT-24-FCE has as its primary function the removal of micro bacteriological charges. Microbial development is controlled by an ingredient composed of spheres of pure silica containing Silver. Silica has an interesting property; it retains the metal as an ion. The combination of this property has made it possible to create silica with low chemical inertia, which can retain antimicrobial metal ions such as silver. The size of this ingredient is micrometric, in the presence of humidity, this structure gradually releases some Ag<sup>+</sup> ions. The silver ion has the ability to strongly bind to the cellular enzyme of microbes and inhibit the enzymatic activity of the cell wall, membrane and nucleic acids, which denature upon contact with the surface of the package.

#### Use:

Inhibits the growth of microorganisms that cause stains, odors or product degradation, including degradation of physical properties in all polyolefin polymers. ADM-BACT-24-FCE is suitable for both injection molding and extrusion of products that come into contact with drinking water. Tests carried out on EPDM Peroxide according to UNI EN 13130-1:2005 demonstrate the specific migration of Silver in 3% acetic acid of 0.0010 mg/kg, while tests carried out according to UNI EN 13130-1:2005 on NBR of 0.0001 mg/kg.

#### Compliance:

The biocidal principles contained in this mixture are authorised by EU regulation no. 528/2012 of which art.95. The product can be used in Pt. 2, 4, 7, 9.

#### Dosage:

From 1.0% to 1.5% of ADM-BACT-24-FCE masterbatch depending on the desired performance. Do not exceed the recommended dosage. The suggested application levels are based on laboratory evaluations and are typical for the specific areas of use. In multilayer films it is recommended to dose the masterbatch only on the layer/layers where the bactericidal effect is to be obtained.

#### Chemical characteristics:

Description Test	Unit	Test methodology	Min – Max -Val
Moisture	ppm	ASTM D6980	100 – 1000
Resin			EVA
Density	g/cm <sup>3</sup>	ISO 1188	0,9 – 1,16
Pellet shape			cylindrical / spherical
Dispersion			STD
Shelf life			12

#### Packaging:

Pallet of: 1,250 Kg. - Bags of 25 Kg.

Store in a cool, dry place. Do not expose to sunlight. Shelf Life: 1 year.

*The information contained in this document and all other relevant technical advice is based on our current knowledge and experience and is considered reliable. It does not represent any guarantee of suitability for use in any specific process or application. It is the end user's responsibility to carry out any necessary tests to determine the suitability of the product for the specific purpose.*