



Technology licensed by the CSIC (Spanish National Research Council)

ZEOMIC ASEPTICAE 013Ag Antimicrobial

- ZEOMIC ASEPTICAE 013Ag is a zeolite powder with both bactericidal and fungicidal capacities that use silver ions (Ag^+) as the active agent.
- The silver ion is dedicated to the control of bacteria and fungi such as Escherichia coli, Legionella sp, Pseudomonas, Salmonella, Listeria monocytogenes, Staphylococcus aureus and Aspergillus niger, avoiding the surfaces that can become reservoirs of pathogenic bacteria which become a focus of infections.
- Eliminates unwanted odors associated with bacterial proliferation.
- The additives are approved by the European BPR EC 528/2012 legislation, by the FDA and by the SIAA of Japan. It is registered in article 95 of the BPR.
- The standard for measuring polymers against bacteria is ISO 22196:2010, equivalent to JIS Z-2801:2010, where the treated material is required to reduce the presence of bacteria by at least 99% in 24 hours ($R > 2$).
- The additive activates in the presence of moisture, which is when microorganisms appear and the silver ions are released.
- Silver ions are safe for humans and do not generate multi-resistant bacteria, they are not persistent in the environment like other organic biocides and at the same time they are very effective against Gram positive and Gram negative bacteria.

Sample	CFU/ml	R	% Effectiveness
Reference	6.93×10^5	-	-
ZEOMIC ASEPTICAE 013Ag	1.00×10^1	4.84*	100

*** $R > 2$, 100% antimicroorganism effectiveness (ISO 22196:2010).**

Table 1: Colony Forming Units count per ml (CFU / ml) and the effectiveness of the antimicrobial effect for two samples: the reference without any treatment and with ZEOMIC ASEPTICAE 013Ag.



Open Media Solutions S.L.
Lituania, 10. 12006 Castellon. España.
Tlf. +34 964 861 816