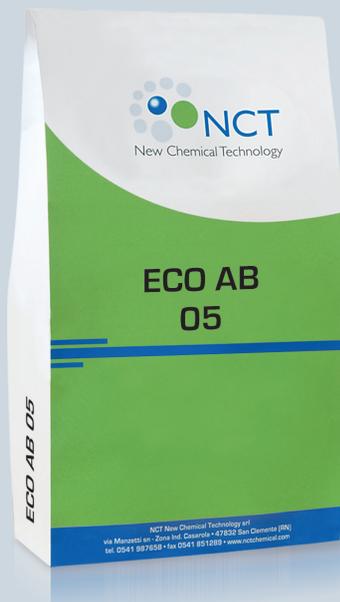




ECO AB-05

ANTI-MOULD AND BACTERICIDE SILVER IONS IN POWDER

ECO AB-05 is a very fine powder of salts of silver in the form of nanoparticles. It produces a permanent, highly bactericidal, fungicide, algicide effect.



ECO AB-05

CHARACTERISTICS

It is a well-known fact that silver and some of its salts are good bactericides even in the state of micro-particles, but the economic aspect on one hand and the occurrence of some epidermal trouble have restricted and prevented its spreading. In reality, some of its salts, mixed with some ionizing minerals in the form of nanoparticles, fully solve the above-mentioned problems. Whilst the bactericidal action of traditional products is limited in time, **ECO AB-05** makes this action practically unlimited, without any dangerous discharge into the environment. Its uses are various and, just to give some examples of the types of application of a product which is absolutely safe for man, **ECO AB-05** is employed in cosmetics as a bactericide in some creams fostering the cicatrization of wounds and bedsores, and in pharmacology, for the delimitation of epidermic infections of bacterial origin.

USE

ECO AB-05 is mainly employed in construction, added to any product for the surface treatment in places needing a continuous antibacterial effect, such as the walls, the floors and the ceilings of hospitals or other places which must be antiseptic out of necessity or by law.

Besides, it can be used to foster the cicatrization of wounds and for the treatment of superficial infections in the field of pharmacology. (To verify the bactericidal effectiveness, see the attached certificates).

DOSAGE

The recommended dosage of **ECO AB-05** is normally of 0,1% on the solid components; the dosage interval of **ECO AB-05** is 0,1-0,5% on the solid components of the mixture. *Anyway, it is advisable to carry out preventive tests on the specific mixtures in order to establish the most suitable and convenient dosage according to the expected results.*

RESULTS OF THE ANTIBACTERIAL ACTIVITY

Tests carried out by Istituto di Scienze Tossicologiche Igienistiche e Ambientali - Università degli Studi di Urbino "Carlo Bo". Test report N.1/B/P/L

The assessment was carried out on TSA plates, charged with the powder and inoculated with the micro-organisms under consideration, with the "SPOT in SOLID" technique. The table shows the antibacterial effect of the powder on the bacterial strains under examination, expressed as a percentage of reduction. The bactericidal action against the four strains studied proved to be of 100%.

| | Staphiloccocus Aureus ATCC 29213 | Escherichia Coli ATCC 25922 | Pseudomonas Aeruginosa ATCC 15442 | Enterococcus Faecalis ATCC 49149 |
|--------|-------------------------------------|--------------------------------|--------------------------------------|-------------------------------------|
| Powder | % Reduction | % Reduction | % Reduction | % Reduction |
| 1 % | 100 | 100 | 100 | 100 |

The powder taken into consideration showed the property to both inhibit the growth of the micro-organisms and to kill them.

The technical data reported in this bulletin were obtained with standardised tests or rules or their modifications or according to New Chemical Technology systems. Our technical service can be asked for the methods applied. What is reported in the present bulletin represents the best of our knowledge and experience. Anyway, we advise to carry out preventive tests when using the product differently from indicated. In any case, New Chemical Technology srl do not take any responsibility for any damage or defects caused by the use of their products, since using conditions of their products are not under their control. They also inform that their technical service is at the customers' disposal for any information concerning the right use of their products.

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SPECIFICATIONS

COMPOSITION:

Salts of silver and Tor-B

STATE: Powder

COLOUR: White

APPARENT SPECIFIC WEIGHT:

max. 0,8 kg/dm³

GRANULOMETRY:

min.95% < 30 nm.

HUMIDITY: max. 4.0%

SOLUBILITY IN WATER:

Insoluble

STORAGE:

In a protected, dry place

RECOMMENDATION

In the present state of our knowledge there are no special recommendations for the manipulation of **ECO AB-05**. Anyway, in consideration of the particle size of the product, it is advisable to take all the precautions dedicated to the use of products in powder and avoid contact with the wet or sweaty skin.

STORAGE

AND VALIDITY

If **ECO AB-05** is stored in a dry place, in the original packaging, it has 12-month validity from the date of the transport document. In case humidity is absorbed by the product, it does not jeopardize its efficaciousness, but makes its dosage difficult and imprecise and its distribution in the finished mixture non homogeneous. It is therefore recommended to close the sacks with care after each collection.

PACKAGING

5 and 10 kg buckets
or bags 25 kg paper sacks.

