

SPECIAL FLOORING FOR THE AGRI-FOOD INDUSTRY

BACTERIOSTOP® GIARETTA ITALIA

All the Giaretta Italia PRO-HYGIENIC flooring systems are Bacteriostop®, i.e. they are made using adhesives and joints with certified anti-bacterial and anti-fungal characteristics.



**ISO 22196:2011 METHOD
ANTI-BACTERIAL MEASUREMENT ON FLOOR SURFACES**

GIARETTA ITALIA® ANTI-BACTERIAL JOINT

RESULT OF TESTS CARRIED OUT ON SAMPLES COMPARED TO MICROBIAL STRAINS AFTER 24 HOURS OF CONTACT

- ✓ *STAPHYLOCCUS AUREUS*
- ✓ *ESCHERICHIA COLI*
- ✓ *CANDIDA ALBICANS*
- ✓ *ASPERGILLUS BRASILIENSIS*

In particular, after 24 hours of contact for the sample with an anti-microbial agent, as regards:

- **bacteria:** there was an average reduction for gram-positive Staphylococcus Aureus of over 99.996% and for gram-negative Escherichia Coli of over 99.995%.
- **fungi:** both for the Candida Albicans yeast and for the Aspergillus Brasiliensis mould, there was an average reduction of over 99.991%.

After 24 hours, the sample contact surface recorded a reduction of fungal and bacterial presence of 99.99%, highlighting the anti-bacterial and anti-fungal performance of Bacteriostop.

Analysis: results from three separate tests, calculation of the relevant averages and test of percentage reduction, on microorganism suspension of Staphylococcus Aureus Coli ATCC 6538P

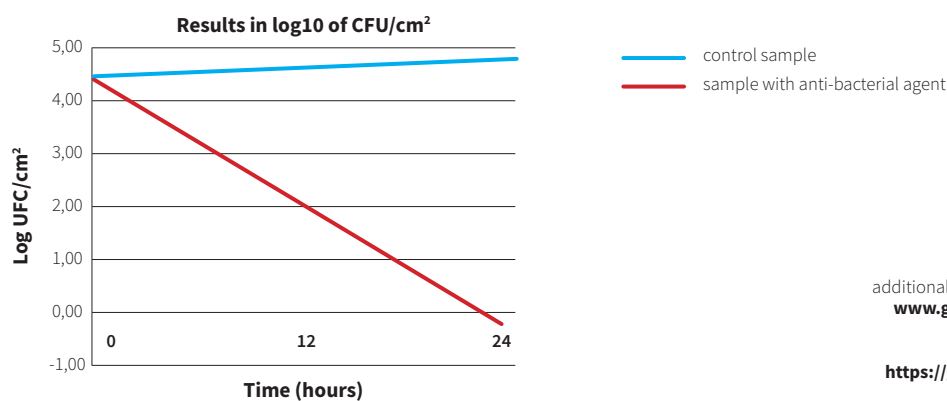
		Unit of measurement	Test 1	Test 2	Test 3	Geometric Mean
Initial time "0"	Control sample (B)	UFC/cm ² (log)	1,6 x 10 ⁴ (4,20)	1,7 x 10 ⁴ (4,23)	1,6 x 10 ⁴ (4,20)	1,6 x 10⁴ (4,21)
	Sample with antibacterial agent on the surface (A)		1,2 x 10 ⁴ (4,08)	1,3 x 10 ⁴ (4,11)	1,4 x 10 ⁴ (4,15)	1,3 x 10⁴ (4,11)
After 24 hours	Control sample (B)	UFC/cm ² (log)	5,6 x 10 ⁴ (4,75)	5,2 x 10 ⁴ (4,72)	5,0 x 10 ⁴ (4,70)	5,0 x 10⁴ (4,72)
	Sample with antibacterial agent on the surface (A)		< 0,6 (< -0,20)	< 0,6 (< -0,20)	< 0,6 (< -0,20)	< 0,6 (< -0,20)

Conditions for the validity of the tests checked on control sample (B)

Initial time "0"	Initial time "0"	After 24 hours
$(\text{Log}_{\max} - \text{Log}_{\min}) / \text{Log}_{\text{medio}} \leq 0,2$	$6,2 \times 10^3 < \text{UFC}/\text{cm}^2 < 2,5 \times 10^4$	$\text{UFC}/\text{cm}^2 > 6,2 \times 10^1$
$(4,23-4,20)/4,21 = < 0,2$ (OK)	$1,6 \times 10^4 - 1,7 \times 10^4$ (OK)	$5,0 \times 10^4 - 5,6 \times 10^4$ (OK)

Calculation of antibacterial activity

	R log	R %
Sample with antibacterial agent on the surface	> 4,93	> 99,996



additional information on
www.giarettaitalia.it

direct link
<https://goo.gl/U4a4k9>

