

TEST REPORT

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Date received: 18-04-11
Date of test: 02-05-11
Date of issue: 06-05-11

Sample name: FINITURA CEROSA FTC8505/J CON ANTIBATTERICO 0,24%

Measurement of antibacterial activity of plastic surfaces ISO 22196:2007

Type of material tested: not analysed
Specimen size: 50x50 mm
Covering film: polyethylene, 40x40 mm, thickness 0,09 mm
Bacterial strains: Escherichia coli ATCC 8739
Staphylococcus aureus ATCC 6538P
Volume of the inoculum: 0,4 ml

Results with E.coli

inoculum density (cfu/ml)	cell count, time 0 untreated specimens (cfu/cm2)	cell count after 24 h untreated specimens* (cfu/cm2)	cell count after 24 h treated specimens (cfu/cm2)
1,8E+06	44375 log=Uo=4,65	94250 log=Ut=4,97	<1 log=At= <0

Antibacterial activity=R= (Ut-Uo)-(At-Uo) = >4,97*

Results with Staphylococcus aureus

inoculum density (cfu/ml)	cell count, time 0 untreated specimens (cfu/cm2)	cell count after 24 h untreated specimens* (cfu/cm2)	cell count after 24 h treated specimens (cfu/cm2)
5,7E+05	14187 log=Uo=4,15	43750 log=Ut=4,64	<1 log=At= <0

Antibacterial activity=R= (Ut-Uo)-(At-Uo) = >4,64*

Remarks:

*test results are referring to reference specimens made of polystyrene, since no viable cells could be recovered from the untreated specimens provided by the customer.

This might indicate that under the testing conditions:

- 1) the untreated material has an inherent antibacterial activity;
- 2) the porosity of the surface does not allow recovery of bacterial cells by the standard washing procedure

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*Managing Director
Dr. Andrea Giavon*