

Mont-ras, 21st February 2020

CERTIFICATE

This is to certify that the MILAN P1 pen ANTIBACTERIAL ref. 176582920 corresponds to the sample analyzed in the below report of Ishizuka Glass co., Ltd with date 3rd September 2018.



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3 September 2018

Messrs. Beijing SR Technology Ltd.

ISHIZUKA GLASS CO., LTD.
Advanced Glass Company

REPORT ON ANTI-MICROBIAL TEST RESULT

1. **Sample:**
Sample plates received on 21 August 2018

Additive: SR-T104, IONPURE CJC

No.	Sample
1.	Antimicrobial Silica Gel SR-T-104 0.5% addition
2.	Antimicrobial PVC SR-T-104 0.6% addition
3.	Antimicrobial Paint IONPURE CJC 0.5% addition

2. **Outline of test:**
 The test was executed in according with "JIS Z 2801-2010" on the special condition of n=1.
 Place tested at: Ishizuka Glass Co., Ltd.
 <Bacteria used for test>

Escherichia coli NBRC3972
Staphylococcus aureus NBRC12732

3. **Test result:**

Table 1. Test result of Anti-microbial effect against *Escherichia coli*

Sample	Number of living bacteria		Antimicrobial activity value against control	Reduction %
	At beginning (Per cm ²)	After 24 hours (Per cm ²)		
1. Antimicrobial Silica Gel SR-T-104 0.5% addition	1.6×10 ⁴	< 6.3	> 5.2	>99.999
2. Antimicrobial PVC SR-T-104 0.6% addition	1.6×10 ⁴	< 6.3	> 5.2	>99.999
3. Antimicrobial Paint IONPURE CJC 0.5% addition	1.6×10 ⁴	< 6.3	> 5.2	>99.999
Control (Film only)	1.6×10 ⁴	1.1×10 ⁶



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Table 2. Test result of Anti-microbial effect against *Staphylococcus aureus*

Sample	Number of living bacteria		Antimicrobial activity value against control	Reduction %
	At beginning (Per cm ²)	After 24 hours (Per cm ²)		
1. Antimicrobial Silica Gel SR-T 104 0.5% addition	1.8×10 ⁴	< 6.3	> 3.7	>99.9
2. Antimicrobial PVC SR-T-104 0.6% addition	1.8×10 ⁴	< 6.3	> 3.7	>99.9
3. Antimicrobial Paint IONPURE CJC 0.5% addition	1.8×10 ⁴	< 6.3	> 3.7	>99.9
Control (Film only)	1.8×10 ⁴	3.9×10 ⁴

4. Consideration:

Sample 1,2 and 3 showed antimicrobial efficacy against both *Escherichia coli* and *Staphylococcus aureus* as its activity value exceeded the standard value of 2.0, which means this application has a >99% bacterial reduction rate.

ISHIZUKA GLASS CO., LTD.



Tomoshige Hasegawa
 MANAGER

With best regards



FACTIS, S.A.

