



Ultraclean Glass™ *CONVERTER*
Ultraclean Porcelain™ *CONVERTER*

To confirm product quality and ensure long-term durability, we are constantly conducting a variety of tests on the longevity and effectiveness of our product. The test results compiled below have been collected in-house with up-to-date testing equipment and are guaranteed to be accurate as measured.

We always encourage our customers and interested parties to conduct their own tests to confirm our results.

1. Contact Angle / Abrasion Tests

a) Test objects

- i. Standard glass panels 150mm x 450mm x 4mm
- ii. Standard ceramic tiles 150mm x 450mm x 10mm

b) Test duration

- i. 4 months and ongoing

c) Testing equipment

- i. **Abrasion / Washability Tester**



The abrasion tester can run unlimited cycles and can be filled with water or any other liquid. For all the tests results reported in this document, distilled water was used. The brushes apply a force of 450 ± 5 grams on the surface. Tests are carried out according to GB/T 9266 standard for abrasion resistance of coatings and paints.

ii. **Contact Angle Tester**



The contact angle tester measures the height of a single drop of water in degrees. For untreated samples, this value is less than 40°. A surface is called hydrophobic if the contact angle of a single drop of water is higher than 85°. If the contact angle drops below that value, a re-application is indicated.

d) **Test procedure**

After each 1,000 abrasion cycles the sample was tested with the contact angle tester. The measured values are the average contact angle of 10 drops of distilled water with a volume of about 25µl each.

Each sample was cleaned with a standard ethanol cleaner before testing.

e) Test results

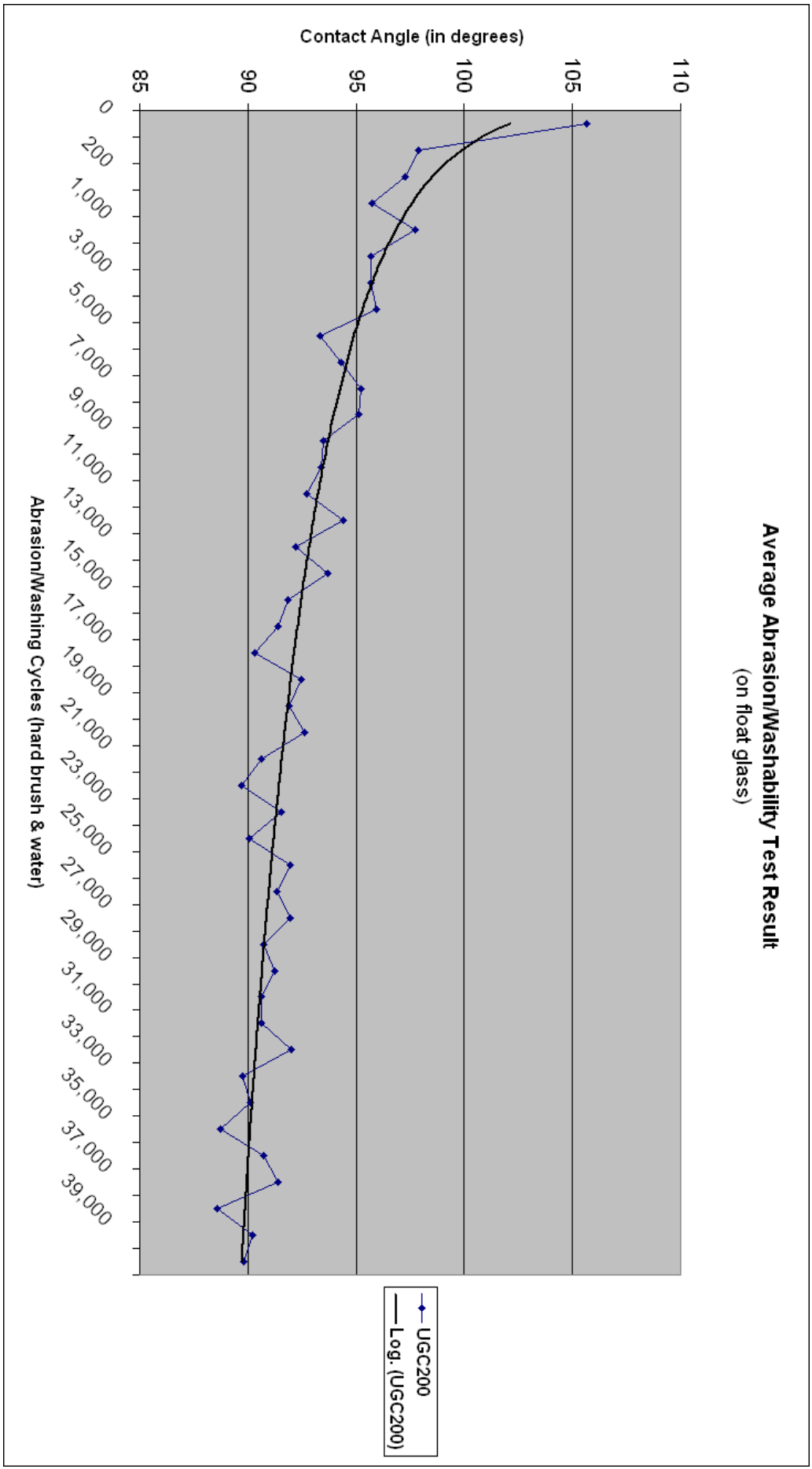
i. Glass samples

Below are the test results for the glass samples.

Initial	105.65
100 cycles	97.86
200 cycles	97.26
500 cycles	95.72
1000 cycles	97.74
2000 cycles	95.70
3000 cycles	95.68
4000 cycles	95.93
5000 cycles	93.33
6000 cycles	94.31
7000 cycles	95.25
8000 cycles	95.13
9000 cycles	93.47
10000 cycles	93.40
11000 cycles	92.74
12000 cycles	94.42
13000 cycles	92.20
14000 cycles	93.68
15000 cycles	91.83
16000 cycles	91.38
17000 cycles	90.30
18000 cycles	92.45
19000 cycles	91.88
20000 cycles	92.62
25000 cycles	91.97
30000 cycles	90.62
35000 cycles	88.74
40000 cycles	89.80

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UGC200**





ii. **Porcelain samples**

Below are the test results for the porcelain sample.

Initial	111.01
100 cycles	101.55
200 cycles	99.51
500 cycles	100.19
1000 cycles	97.65
2000 cycles	97.28
3000 cycles	97.69
4000 cycles	98.67
5000 cycles	97.04
6000 cycles	96.60
7000 cycles	98.28
8000 cycles	96.26
9000 cycles	97.28
10000 cycles	97.41
11000 cycles	98.06
12000 cycles	96.56
13000 cycles	96.52
14000 cycles	97.00
15000 cycles	92.54
16000 cycles	94.71
17000 cycles	94.10
18000 cycles	94.45
19000 cycles	96.64
20000 cycles	95.78
25000 cycles	93.86
30000 cycles	91.82
35000 cycles	92.32
40000 cycles	89.97

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