

Test Report

No.: NBHL2307013897PL

Date: AUG. 08, 2023

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ZHEJIANG SORBO TECHNOLOGY CO., LTD.

NO.2,DAQING ROAD,OUHAI GAOXIANG INDUSTRIAL ZONE, WENZHOU,ZHEJIANG PROVINCE,CHINA

The following sample(s) was/were submitted and identified by the client as:

Sample Description	: PAINT SPRAYING SAMPLE (MATERIAL PERFORMANCE TEST FOR KOHLER PORTABLE BIDET MODEL SB-9502E)
Style No.	: SB-9502E
Manufacturer	: ZHEJIANG SORBO TECHNOLOGY CO., LTD.
Buyer	: KOHLER CHINA INVESTMENT CO.,LTD
Country of Origin	: CHINA

Sample Receiving Date	: JUL. 25, 2023
Testing Period	: JUL. 25, 2023 TO AUG. 08, 2023
Testing Lab Address	: 2F No. 7 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China

Test Requested

Test Requested	Result
1. CORROSION (REFER TO ASME A112.18.1-2018/CSA B125.1-18 CLAUSE 5.2.2.1(A))	<u>Pass</u>
2. THERMAL CYCLE (REFER TO ASME A112.18.1-2018/CSA B125.1-18 CLAUSE 5.2.3.3.2)	<u>Pass</u>
3. SOAP & CLEANER (REFER TO ASME A112.18.1-2018/CSA B125.1-18 CLAUSE 5.2.4.3)	<u>Pass</u>
4. WATER DEGRADATION (REFER TO ASME A112.18.1-2018/CSA B125.1-18 CLAUSE 5.2.4.2)	<u>Pass</u>
5. ADHESION (REFER TO ASME A112.18.1-2018/CSA B125.1-18 CLAUSE 5.2.3.4)	<u>Pass</u>
6. FALLING SAND (REFER TO ASME A112.18.1-2018/CSA B125.1-18 CLAUSE 5.2.4.4)	<u>Pass</u>

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Peter Xi



Peter Xi

Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Ningbo Branch Harbin

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Test Conducted:

1. **Corrosion (Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.2.1(a))**
2. **Thermal cycling (Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.3.3.2)**
3. **Soap and cleaner effects (Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.4.3)**
4. **Water degradation (Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.4.2)**
5. **Adhesion (Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.3.4)**
6. **Falling sand (Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.4.4)**

Sample No.	Color	Sample Size
Test sample 1	Black	11 pieces
Test sample 2	White	11 pieces

Clause	Test Method	Test Requirement	Result	Rating
Material				
Corrosion	Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.2.1(a)	<p>Test procedure:</p> <p>The coated parts shall comply with the performance requirements of Clause 5.2.2.1 after being subjected to one of the following corrosion tests:</p> <p>ASTM G85 (Annex A1 — acetic acid): the test duration shall be 8 h for service conditions 1 (SC-1) and 24 h for service conditions 2 (SC-2).</p> <p>Requirement:</p> <ol style="list-style-type: none"> 1. An X-cut is required on all salt spray samples. pass/fail criteria at x-cut per F100_208. X-cut failure is not a code failure. 2. Rate areas away from the X-cut per the following: <ul style="list-style-type: none"> -No more than one surface defect in any 650 mm² (1.0 in²) of the significant surface, or up to three surface defects on a 25 mm (1 in) length of parting line. -No surface defect may exceed 0.8 mm (0.03 in) in any direction. 3. Kohler company reserves the right to evaluate defect combinations or other defects such as staining and cracking and reject accordingly. 	See Result 1	Sample 1-2: Pass



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Thermal cycling	Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.3.3.2	<p>Before the thermal cycling test begins, the fittings or component parts of fittings shall be examined and surface imperfections (e.g., small mould imperfections) shall be noted. These surface imperfections shall not be considered failures after the thermal cycling test unless they develop into surface defects.</p> <p>Under dry conditions, the specimens shall be subjected consecutively to four complete cycles of temperatures, with each complete cycle consisting of the following steps in the following order:</p> <p>a) $-40 \pm 2\text{ }^{\circ}\text{C}$ ($-40 \pm 4\text{ }^{\circ}\text{F}$) for 20 min to 1 h;</p> <p>b) $20 \pm 5\text{ }^{\circ}\text{C}$ ($68 \pm 9\text{ }^{\circ}\text{F}$) for a minimum of 20 min;</p> <p>c) $75 \pm 2\text{ }^{\circ}\text{C}$ ($167 \pm 4\text{ }^{\circ}\text{F}$) for 20 min to 1 h; and</p> <p>d) $20 \pm 5\text{ }^{\circ}\text{C}$ ($68 \pm 9\text{ }^{\circ}\text{F}$) for a minimum of 20 min.</p> <p>The temperatures specified in Items a) to d) shall be measured within 50 mm (2 in) of the centre of the location of the specimens. Temperature ramping may be used for achieving the temperatures specified in Items a) to d). For the steps specified in Items a) and c), the temperature ramping time (if any) plus the time during which the specimen is at the specified temperature (a minimum of 20 min) shall not exceed 1 h.</p> <p>During testing, there shall be free circulation of air around the specimens and most of their surface area shall not be in contact with other specimens or the holding container.</p>	No surface defects	Sample 1-2: Pass



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Clause	Test Method	Test Requirement	Result	Rating
Soap and cleaner effects	Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.4.3	Two drops (0.10 mL total) of each of the following solutions shall be applied to the organic coating (preferably on a flat surface) and allowed to remain there for 16 h: a) ammonium hydroxide (6N); b) sodium hydroxide (6N); c) methanol (100%); and d) surfactant (100% polyethylene oxyethanol). At the end of the 16 h period, the excess liquid shall be removed by rinsing with water, and the coating shall be dried and examined. Note: Non-ionic surfactants complying with Item d) include GAF Igepal CO, GAF Igepal CA, and Shell Triton X-100. Requirement: In addition to complying with the adhesion testing specified in Clause 5.2.3.4, decorative organic coatings shall show no surface defects when they are tested in accordance with Clauses 5.2.4.2 and 5.2.4.3, and their finish shall not erode in such a way that the surface directly beneath the organic coating is exposed when they are tested in accordance with Clause 5.2.4.4.	No surface defects	Sample 1-2: Pass
Water degradation	Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.4.2	Specimens shall be immersed in distilled water maintained at $38 \pm 1^\circ\text{C}$ ($100 \pm 2^\circ\text{F}$) for 24 ± 0.5 h in a corrosion-proof container and then removed and examined. Requirement: In addition to complying with the adhesion testing specified in Clause 5.2.3.4, decorative organic coatings shall show no surface defects when they are tested in accordance with Clauses 5.2.4.2 and 5.2.4.3, and their finish shall not erode in such a way that the surface directly beneath the organic coating is exposed when they are tested in accordance with Clause 5.2.4.4.	No surface defects	Sample 1-2: Pass



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Clause	Test Method	Test Requirement	Result	Rating
Adhesion	Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.3.4	The adhesion of organic coatings shall be tested in accordance with Method A of ASTM D3359. The organic coating shall have an adhesion rating of 3A or better. Requirement: In addition to complying with the adhesion testing specified in Clause 5.2.3.4, decorative organic coatings shall show no surface defects when they are tested in accordance with Clauses 5.2.4.2 and 5.2.4.3, and their finish shall not erode in such a way that the surface directly beneath the organic coating is exposed when they are tested in accordance with Clause 5.2.4.4.	Rating: Sample 1: 5A Sample 2: 5A	Sample 1-2: Pass
FALLING SAND	Refer to ASME A112.18.1-2018/CSA B125.1-18 Clause 5.2.4.4	Specimens shall be tested in accordance with Method A of ASTM D968 using 12 L (3.2 gal) of silica sand on a relatively flat surface of the specimen. Requirement: No wear through of coating to the surface directly beneath.	See Result 2	Sample 1-2: Pass



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Result 1:

Test Item: Acetic Acid Salt Spray (AASS) Test

Sample Description: Sheet

Test Method: ASTM G85-19 Annex A1

Test Condition:

Concentration of solution collected: (5±1) % NaCl (m/m)

Chamber temperature: (35±2) °C

Volume of salt solution collected: (1.0~2.0) ml/(80cm²·h)

pH of collected solution at 25°C: 3.1~3.3

Exposure period: 24h

Test Result:

Sample		Appearance	Client's requirement	Conclusion
A	#1	No visual surface defect in significant surface, no visual surface defects on parting line	No more than one surface defect in any 650 mm ² (1.0 in. ²) of the significant surface, or up to three surface defects on as 25mm (1 in.) length of parting line. No surface defect may exceed 0.8 mm (0.03 in.) in any direction	Pass
	#2	No visual surface defect in significant surface, no visual surface defects on parting line		Pass
B	#1	No visual surface defect in significant surface, no visual surface defects on parting line		Pass
	#2	No visual surface defect in significant surface, no visual surface defects on parting line		Pass



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Result 2:

Test Item: Falling Sand Abrasion

Sample Description: Coated panel

Test Method: ASTM D968-22 Method A

Test conditions:

Abrasive: Standard sand

Speed: 2L/ (21-23.5)s

Litres of abrasive:12 L

Test Result:

Sample	Appearance
A	Visible abrasion mark
B	Visible abrasion mark



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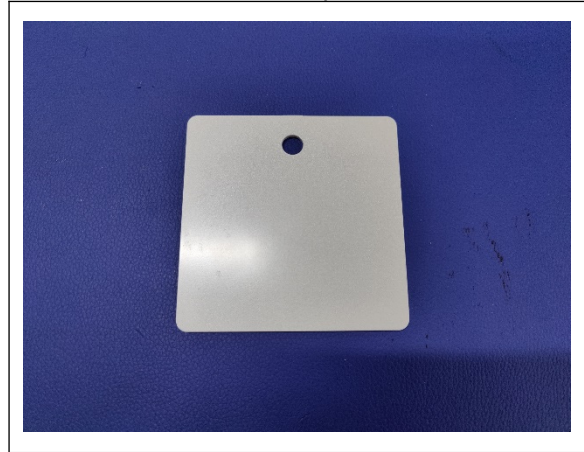
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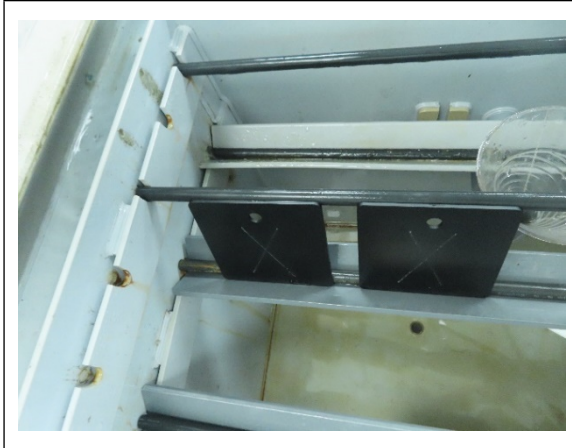
Test sample 1



Test sample 2



During corrosion test (sample 1)



During corrosion test (sample 2)



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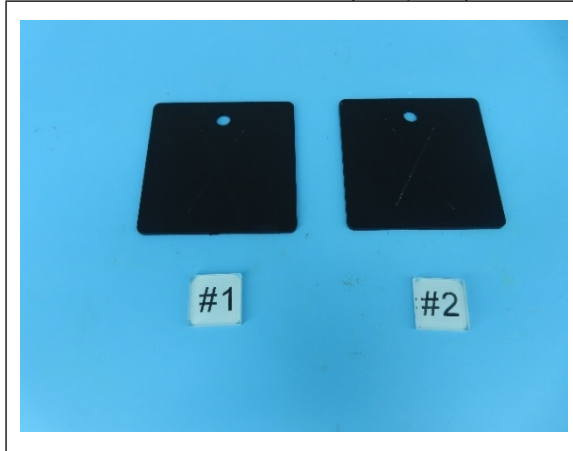
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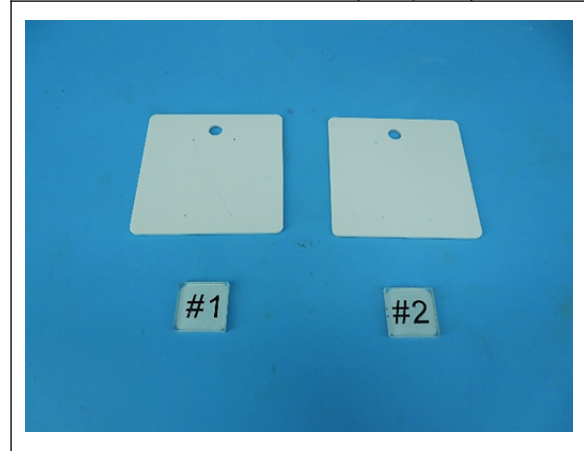
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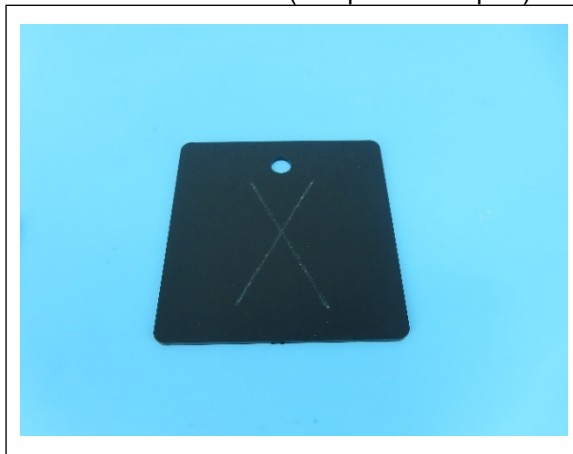
After corrosion test (sample 1)



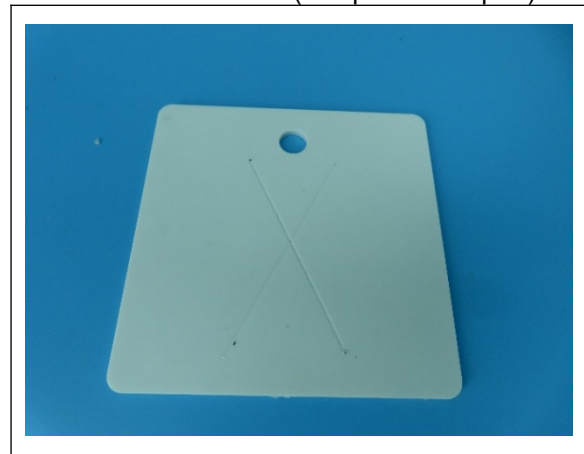
After corrosion test (sample 2)



After corrosion test (sample 1-local part)



After corrosion test (sample 2-local part)



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Test Report

No.: NBHL2307013897PL

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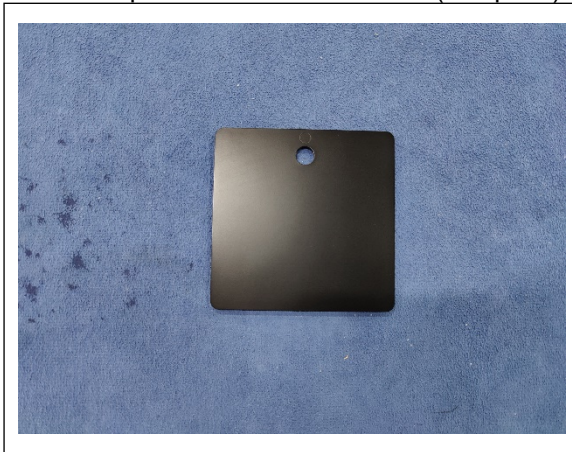
After thermal cycling test (sample 1)



After thermal cycling test (sample 2)



After soap and cleaner effects test (sample 1)



After soap and cleaner effects test (sample 2)



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After water degradation test (sample 1)



After water degradation test (sample 2)



After adhesion test (sample 1)



After adhesion test (sample 2)



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Test Report

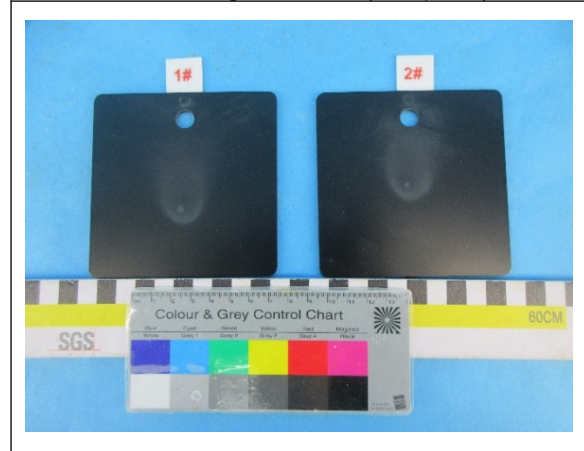
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Before falling sand test (sample 1)



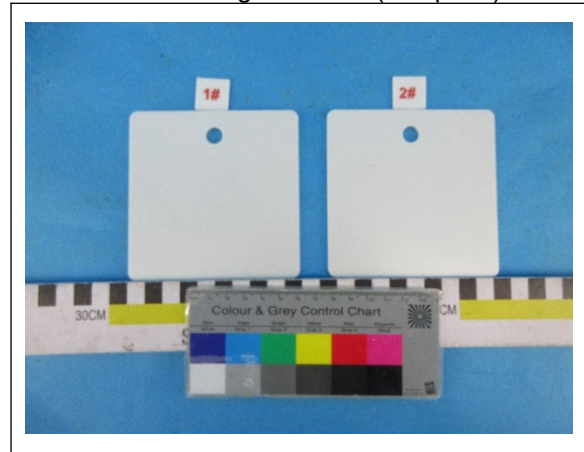
After falling sand test (sample 1)



The close-up after test (sample 1)



Before falling sand test (sample 2)



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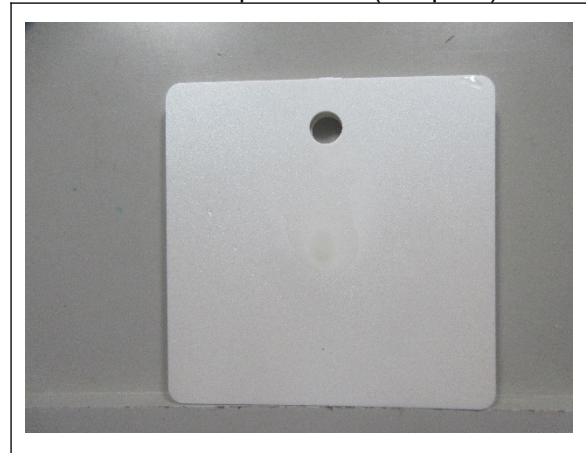
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After falling sand test (sample 2)



The close-up after test (sample 2)



SGS authenticate the photo on original report only

End of Report



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