Report number: HGCJ190801001

TEST REPORT

Sample Description:	PVD SINK	
Applicant:	Purchasing Department	
	Internal Inspection	
Data of increation	2010 9 20 9 15	







DECLARATION

- 1. The test report is invalid without the official stamp of the testing institute.
- 2. The test report is invalid without the signatures or stamps of the testing.
- 3. The test report is invalid if scribbled or altered.
- 4. Any partial photocopy of the test report is not allowed without written permission of the testing institute. Any modification, improper or illegal use of the test report is prohibited.
- 5. Any dispute of the test result must be raised to the testing institute within 15 days after receiving, otherwise it is taken as no objection (except otherwise stipulated).
- 6. The result of the commission test is only corresponding to the sample(s).

FOSHAN SHUNDE HIGOLD HARDWARE PRODUCT MANUFACTURING CO., LTD.

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Product Name	;	PVD Matt Black Sink	Production Date	2019-7-31	
Model Specification			Batch No. or Lot No.		
Applicant		Purchasing Department	Test Type	Commission Inspection	
Applicant Address		Purchasing Department	Number of Samples	1	
Manufacturer		HIGOLD	Sampling Base	1	
Sampling Mod Sender/Sample		Sample Delivery	Date of Sampling	July 31, 2019	
Place of Sampling		Laboratory at 3rd Workshop	Date of Inspection	August 15, 2019	
Sample Characteristics and Status		acteristics and Status	Sample is intact		
Inspection and Judgment Basis	According to the quality standards of HIGOLD for PVD sink. The inspection items meet the requirements.				
Test Results	The items inspected meet the requirements of HIGOLD for PVD sink quality standards.				
Remarks	1."" means not applicable; 2. The test results are only responsible for the sample; 3. Inspection date: 2019-8-2~8-15.				
Main Inspector: Jinghui Zou August 15, 2019		Testing Unit: Test Lal	boratory of FOSHAN		
Verifier: Guibin Liao August 15, 2019		SHUNDE HIGOLD HARDWARE PRODUCT			
Approver: Julin Yu August 15, 2019 MANUFACTURING CO., LTD.		RING CO., LTD.			

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No.	Inspection Item	Inspection Basis and Requirements	Terms	Test Results	Analysis and Judgment
1	Visual inspection	The color of the PVD on the A, B, C and D sides of the water tank should be the same. The base color of the 304 stainless steel raw materials should be confirmed by reference to the sample. The visual difference cannot be obvious.	9.3	Color consistent without obvious color difference	Qualified
2	Corrosion resistance test	After the 24-hour acid salt spray test according to the standard GB/T 10125, the sink products should meet the requirements of the above-mentioned standard of grade 9 (inclusive) in GB/T 6461.	10.5	Level 10	Qualified
3	Hundred grid test	Use a tungsten carbide steel knife and a steel ruler or a hundred-square knife to cut a 10×10mm square on the surface of the workpiece to be tested. When the grid is cut, the edge is perpendicular to the surface of the coating. The scratch spacing is 1mm, and the depth should be enough to penetrate the coating. The plating layer will not be embedded in the substrate, and the surface of the scratched workpiece will be wiped off, and then adhered to the cutting surface of the workpiece to be tested with 3M tape (adhesion force (10±1)N/25mm), and rubbed with an eraser or a finger. Press and hold the tape against the surface of the workpiece being tested. After 1 min, the tape was pulled away quickly in the direction of 45 ° from the surface of the workpiece. To view the workpiece, the required level must be level 1 or above.	10.6	0	Qualified
4	Thermal shock test	Place the metal PVD product in constant temperature and humidity at $150 ^{\circ}\text{C} \pm 10 ^{\circ}\text{C}$ for 7 hours, take it out and put it into 18-25 $^{\circ}\text{C}$ clean water and cool it thoroughly. The test piece should not be blistering, wrinkling, cracking or peeling.	10.7	No blistering, wrinkling, cracking or peeling.	Qualified
5	Color change resistance test	The PVD product is placed in a constant temperature and humidity chamber at 100 $^{\circ}\!$	10.8	No discoloration	Qualified
6	Coating pencil hardness test	The tip of the pen is pressed against the surface of the workpiece to be measured at an angle of 45°, and at least 7 mm is pushed forward (away from the operator) by a force (about 750 g load) at a speed of 0.5 mm/s to 1 mm/s. Long straight line segment distance. The hardness is increased sequentially by 4H-9H until a scratch of at least 3 mm is present. After 30s, the pencil marks on the workpiece are wiped clean with a soft cloth or rubber, and the hardness of the coating is required to be at least 8H.	10.9	9Н	Qualified
7	Alkali resistance test	At room temperature, remove the mixture of detergent and water (volume 1:30) into the water tank. The water level completely covers the bottom of the water tank for more than 20mm, so that the water tank can be fully immersed for 48 hours. After draining the water, gently wash or impregnate with flowing cold water. In order to remove the mixed liquid on the surface of the sample, dry it with a blower and check it. The coating is required to be free from peeling, and the color around the water tank is not colored.	10.10	There is no peeling of the coating, and there is no color difference around the sink.	Qualified
8	Abrasion test	The steel ball $+$ load is 50 0g , and the PVD product or the coated swatch is reciprocally rubbed 500 times (the round-trip count is 1 time), and every 100 observations, the coating is observed to fall off.	10.11	Slight scratches, no peeling off of the coating, peeling	Qualified

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No.	Inspection Item	Inspection Basis and Requirements	Terms	Test Results	Analysis and Judgment
9	Resistance to weather fastness test	The metal PVD product is stored in constant temperature and humidity at -25 $^{\circ}$ C ± 1 $^{\circ}$ C for 3 hours, then rapidly transferred to 150 $^{\circ}$ C ± 1 $^{\circ}$ C for 3 hours for one test cycle, continuous two cycles of thermal cycle impact test, The test piece shall not have blistering, wrinkling, cracking or peeling.	10.12	No blistering, wrinkling, cracking or peeling.	Qualified
nnex Photo	os:				
Test	Item	Test Process Photo			Result
External a	assessment				Qualified
Corrosion r	esistance test				Qualified

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Test Item	Test Process Photo	Result
Hundred grid test	Scotch 34 IN 28 IN 5 TD 19 mm x 19 mm x 3 19 mm x 3	Qualified
Thermal shock test	在制造 在制造 建工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工	Qualified
Color change resistance test		Qualified

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Test Item Test Process Photo

Coating pencil hardness test



Qualified

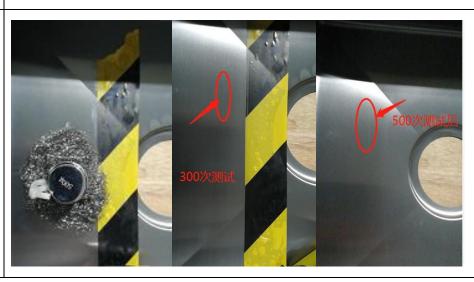
Result

Alkali resistance test



Qualified

Abrasion test



Qualified

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Report Number: HGCJ190801001 Page 6 of 6 Test Item Test Process Photo Result Qualified 控制器 Resistance to Qualified weather fastness test 准成戊基役各智能制造负限公司 智智热性。13621434820 Qualified