



Acme Sanitary Ware Co. Ltd.

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EMCA

PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			LEGEND	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	EMCA (PRC) Chrome plated brass press-action waste with slot; complied with BS EN 274-1:2002, BS EN 274-2:2002, BS EN 274-3, 2002 In-house method, BE EN 248:2002 & ISO 9227:2012; test report J28339A & J28339B	Illustration/ Drawing
Model	EM9003.010	
Finish	Chrome Plated	
Manufacturer	EMCA (PRC)	
Source	Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen	
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Note:

* All information of the above is for the reference only. No prior notice is made if any changes.

Test Report

TITLE : Testing of Waste Fitting
 REPORT NO. : J 28339A
 DESCRIPTION OF SAMPLE¹ : Chrome plated brass press-action waste with slot
 SAMPLE SUBMITTED BY¹ : Acme Sanitary Ware Co., Ltd.
 1/F, Acme Building, 22-28 Nanking Street,
 Yau Ma Tei, Kowloon, Hong Kong
 BRAND¹ : EMCA
 COUNTRY OF ORIGIN¹ : PRC
 MODEL¹ : EM9003.010
 BODY MARKINGS : /
 METHOD OF TESTS : BS EN 274-1: 2002; BS EN 274-2: 2002; BS EN 274-3: 2002
 In-house method
 PERIOD OF TESTS : 04 Aug., 2023 to 07 Aug., 2023

¹ – Information below provided by client

RESULTS: - (apply only to the sample tested)

SUMMARY OF RESULTS

Test	Remark
1 Appearance of surfaces	C
2 Hydraulic requirements	C
3 Leaktightness	C
4 Materials and temperature cycling	C
5 Leaktightness after temperature cycling	C

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1. APPEARANCE OF SURFACES BS EN 274-1: 2002 Cl. 4.2

Variable	Requirement	Visual Inspection (Yes/No)	Remark
Sample	The internal and external surfaces of the waste fittings shall be smooth, free from grooving, blistering or any other surface defects likely to impair their functioning.	Yes	C

2. HYDRAULIC REQUIREMENTS BSEN 274-1: 2002 Cl. 4.6, table 3 & BSEN 274-2: 2002 Cl. 5.1 & 5.4

Variable	Unit	Measured	Requirement	Remark
Minimum Flow Rate	l/s	0.94	≥ 0.60 for wash basin, bidet for waste outlet	C

3. LEAKTIGHTNESS TEST BS EN 274-1: 2002 Cl. 4.7.2 & BS EN 274-2: 2002 Cl. 6.2

Variable	Water pressure (bar)	Duration (min)	Leakage	Remark
Sample	0.1	5	No	C
Waste fitting (traps) requirement	0.1	5	No	/

4. MATERIALS AND TEMPERATURE CYCLING TEST BS EN 274-1: 2002 Cl. 4.3 & BS EN 274-2: 2002 Cl. 3

Variable	5 cycles	Requirement	Visual Inspection	Remark
Sample	93 - 95 °C for 15 mins at 0.5 l/s, then 20±5°C for 10 mins at 0.5 l/s	No defect	No defect	C

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5. LEAKTIGHTNESS TEST AFTER TEMPERATURE CYCLING TEST
BS EN 274-1: 2002 Cl. 4.7.2 & BS EN 274-2: 2002 Cl. 6.2

Variable	Water pressure (bar)	Duration (min)	Leakage	Remark
Sample	0.1	5	No	C
Waste fitting (traps) requirement	0.1	5	No	/

Date: 18 Aug., 2023 Authorized Signature: _____

Nutek Systems is a testing agency, accepted by the Water Supplies Department, for testing water supply fittings.

CHUNG Siu Yu, Alan
(Engineer)

Figure 1 – Sample



General Note(s)

Definitions:
C – conformance
NC – non-conformance

- End of report -

Test Report

TITLE : Testing of Exposed Surface Coating (Corrosion Resistance Test)

REPORT NO : J 28339B

DESCRIPTION OF SAMPLE¹ : Chrome Plated brass press-action waste with slot

SAMPLE SUBMITTED BY¹ : Acme Sanitary Ware Co., Ltd.
1/F, Acme Building,
22-28 Nanking Street,
Yau Ma Tei, Kowloon, Hong Kong

BODY MARKINGS : /

BRAND¹ : EMCA

MODEL¹ : EM9003.010

COUNTRY OF ORIGIN¹ : PRC

METHOD OF TESTS : BS EN 248: 2002 & ISO 9227: 2012

PERIOD OF TESTS : 03 Oct., 2023 to 13 Oct., 2023

¹ – Information provided by client

RESULTS: (apply only to the sample tested)

SUMMARY OF RESULTS

Test	Remark
1 Exposed Surface Coatings- Test conditions	C
2 Exposed Surface Coatings- Corrosion Resistance Test –Neutral Saline Spray	C
3 Exposed Surface Coatings- Examination of affected area	C

1. Exposed Surface Coatings-Test Conditions
BS EN 248: 2002 Clause 5.1.2 & ISO 9227: 2012

	Reading	Requirement	Remark
Light Intensity for inspection before test (Lux)	860	700 – 1000	C
Light Intensity for inspection after test (Lux)	880	700 - 1000	C
Spray (pH)	7.0	6.5 – 7.2	C
Spray temperature (°C)	48	48 at 98kPa	C
Rest period (hr)	48	48 ± 1	C
Spray time (hr)	200	≥ 200	C
Overall results			C

2. Exposed Surface Coatings- Corrosion Resistance Test –Neutral Saline Spray
BS EN 248: 2002 Clause 4.2, 4.3, 4.4 & 5.1.2

Defects	-Cause of defects	Before test	After test	Requirement	Remark
Yellow colour	Little or no chrome over the nickel	No	No	No	C
Stains	Faults under the nickel plating	No	No		C
Pitting or porosity	Surface faults in the base metal or emission of gas in treatment baths	No	No		C
Blisters	Bubbles or raised spots on the plated surface	No	No		C
Wheel marks	Fine or sharp lines that remain after polishing or buffing	No	No		C
Cracks	Usually caused by “hot spots” in casting or plated surface flakiness	No	No		C
Splashes	Lack of “flow” in casting or plastic injection	No	No		C
Dullness	Lack of full shine	No	No		C
Cuts and scratches	Scratches due to handling or knocks during transport	No	No		C
Burns	Roughness and grey appearance of surface	No	No		C
Scaliness	Lack of “consistent cover” and flakiness of plating	No	No		C
Orange-peel” effect	Defect in smoothness (similar to peel of an orange)	No	No		C
Roughness – grain	Metallic impurities in nickel baths	No	No		C
Overall results					C

3. Exposed Surface Coatings- Examination of affected area
BS EN 248: 2002 Clause 5.1.3

	Unit	Measured	Requirement	Remark
Affected area for appearance, A	mm	0	< 0.3	C
	%	0	≤ 0.1	C
Overall results				C

Date: 5 Jan., 2024

Authorized signature:

Terry Lam

Lam Kwai Wah, Terry
(Operations Manager)

Nutek Systems is a testing agency, accepted by the Water Supplies Department, for testing water supply fittings.



Figure 1 – Sample before test

General Note(s)

Definitions:
C – conformance
NC – non-conformance

- End of report -