

Acme Sanitary Ware Co. Ltd.

1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong Tel: 2388 7171 Fax: 2710 8012 Email: acme@acmesanitary.com.hk



350mm

Since 1949 Website: www.acmesanitary.com.hk

PROJECT	REF	REV	ITEM CODE	
LOCATION	DATE		PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions Star (Thailand) "Kitty" Wall hung washbasin with Illustration/ Drawing right hand side corner hole & overflow; with 1-1/4 inch plastic anti-syphon bottle trap; chrome plated brass 1-1/4 inch. waste slotted and elbow action tap for disabled; 1/2" x 1/2" flexible hose with 350mm long; EMCA (PRC) angle valve with washable filter; Nominal flow rate 1.7 l/min in WELS Grade 1; Registration No. TN 22-0076; tested on operating force of handler control less than 22N; capable of carrying a static load of 150kg; BS1188:1974 & BS3402:1969; BSEN 14688:2006; BS EN 248:2002 & ISO 9227:2002; BS EN 274-1:2002; BS EN 274-2:2002; BS EN 274-3; 2002; test report J27503C & J27439 & J26110 & J28340B & J28340A; complied with Barrier Free Access 2008 Dimensions L410 x W300 x H212 mm Model S-4507 (Basin) EM3505.100 (Elbow Action Tap) 1010 (Bottle Trap) 410 EM9010.010 (Basin Waste) HL-SS-02-02-006-35 (Flexible Hose) 300 EM4001.505 (Filtered Angle Valve) Material/Colour Vitreous China / White TOP VIEW Manufacturer Star (Thailand) / Diethelm (PRC) / EMCA (PRC) -29 Source Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen FRONT VIEW Contact Tel/Fax (852) 2388-7171 / (852) 2710-8012 E-mail acme@acmesanitary.com.hk Website www.acmesanitary.com.hk SIDE VIEW 2.00 1 1/4"BSP 1.80 1.60 1.40 1.20 1.00 0.80 0.60 0.40 0.20

600

500

1.80

700

600

1.90

Note: 40.1059.000 aerator is pre-installed in the disabled tap.

50

1.30

100

0.00

Dynamic flow pressure (kPa)

Flow rate (1/min)

Dynamic flow pressure (kPa)

250

350

1.70

150

1.60

300

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



自願參與用水效益標籤計劃-水龍頭 Voluntary Water Efficiency Labelling Scheme - Water Taps





This is to certify that

Acme Sanitary Ware Company Limited

將下列水龍頭在本計劃內註冊:

has registered the following water tap under this scheme:

EMCA + Neoperl / Brand

EM3505.100 + 40.1059.000 / Model

Non-mixing

China (Tap) / Country or Region Origin

Germany (Flow Controller)

在用水效益標籤上展示的標誌

滴水點 Symbolic Presentation on the Water Efficiency Label Water droplet(s)

用水效益級別

Water Efficiency Grade

耗水量 公升/分鐘 Water Consumption

5 August 2022 簽發日期: Date of Issue:





水務署署長(林麗恒代行) for Director of Water Supplies



水務署 Water Supplies Department

總部 Headquarters

香港灣仔告士打道七號入境事務大樓 48 樓

Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong



3321/2022 T/J(424/2022)

電話

Tel. 傳真

傳真

: 2824 0578

21 June 2022

Acme Sanitary Ware Co Ltd 1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong

(Attn.: Mr Perry CHOW)

Dear Sir,



Your letters ref. L001/2022 and L002/2022 dated 22 April 2022 and 25 May 2022 respectively refer.

Having considered the test report ref. J27503A issued on 13 April 2022 by Nutek Systems (HK) Limited, this Authority accepts that the fitting described below complies with, and its use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer:

Kaiping City Doyei Sanitary Ware Corporation Ltd

Country of Origin:

the Mainland of China

Brand:

EMCA

Details of Fitting:

1/2" Deck mounted pillar tap

Model:

EM3505.100

Body Markings:

EMCA

Expiry Date:

21 March 2027





This Authority hereby permits the use of the above fitting in fresh water plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the fitting to be installed shall be replicas of the sample as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fitting installed fails to meet that of the approved sample or if the fitting is found to be unsuitable for use in fresh water plumbing systems.

This acceptance is only applicable to the main body of the fitting, unless otherwise specified.

For the use of the fitting in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fitting by this Authority.

Should you have any enquiries, please contact our Engineer Ms Winnie LO at tel. no. 3583 4086.

Yours faithfully.

(YAU Hau Yin) for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue ME/MC] - with soft copy only



LOCATION

Acme Sanitary Ware Co. Ltd.

1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong Tel: 2388 7171 Fax: 2710 8012 Email: acme@acmesanitary.com.hk

DATE

Since 1949	website: www.acmesanitary.com	n.nk			
PROJECT		REF	REV	ITEM CODE	

PAGE

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	F1/2" x F1/2"x 350mm Stainless steel	Illustration/ Drawing
	flexible hose, 350mm length	
Model	HL-SS-02-02-006-035	
Finish	Stainless Steel	
Source	Acme Sanitary Ware Co. Ltd	
	Mr. Eric Wong/ Mr. Don Yuen	∦
Contact Tel/Fax	(852) 2388-7171 / (852) 2710-8012	
E-mail	acme@acmesanitary.com.hk	
Website	www.acmesanitary.com.hk	

Note:			

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



來函檔號

Your ref.

水務署 Water Supplies Department



士打道七號入境事務大樓 48 樓

tion Tower, 7 Gloucester Road, Wan Chai, Hong Kong

3321/19 T/J(1002/2019)

電話

Tel.

傳真 Fax.

2824 0578

8 November 2019



Dear Sir,

Approval of "HL" Flexible Hoses (General Acceptance No. B20190064)

Your letters ref. TFWC-2019-010, TFWC-2019-010R1 and TFWC-2019-010R dated 27 September 2019, 23 October 2019 and 25 October 2019 respectively refer.

It is noted that the fittings described below have been accepted by the United Kingdom Water Regulations Advisory Scheme (WRAS) to have complied with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations / Scottish Water Byelaws when correctly installed. This Authority accepts that the fittings described below based on the WRAS certificate comply with, and their use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer:

Kaiping City Hualing Hoses Co Ltd

Country of Origin:

the Mainland of China

Brand:

HL

Details of Fitting:

Nylon and stainless steel braided flexible hose assemblies with EPDM inner hose and brass end connectors which incorporate EPDM washers and 'O'-rings. Maximum





working pressure 10.0 bar. Maximum working

temperature 85°C

Model and Size:

HL-SS-XX-XX-XXX HL-N-XX-XX-XXX

SS=Stainless Steel Braided Hose

N=Nylon Pull out Hose

1st & 2nd XX = Connection sizes:

01=F3/8 02=F1/2

03=F3/4 (only available on SS models) 04=F15*1 (only available on SS models) 05=M3/8 (only available on SS models) 06=M1/2 (only available on SS models) 07=M3/4 (only available on SS models)

08=M15 09=M12 10=M10

12=Pushfit (M) 11mm ID or (F) 11mm OD

1st XXX: Hose size:

Nylon and stainless steel braided hoses:

006= DN6, 008= DN8

Stainless steel braided hoses only:

010= DN10, 014= DN14

2nd XXX: Hose length: 15CM - 200CM

Body Markings:

Hualing, WRAS and date of manufacture (yyyy) on

ferrule

WRAS Approval Number: 1909363

Installation Requirements: R001

Expiry Date:

30 September 2024

In view of the acceptance by WRAS, this Authority has no objection to the use of the said fittings in fresh water plumbing systems subject to full adherence to Waterworks installation requirements. In particular, you are required to draw your customers' attention to the following installation requirements –

"Installation shall comply with the 'Installation Requirements & Notes' of the WRAS's approval letter concerned." AND

"The inlet flexible hose is applied for the water tap or mixer connection only and installed in the fresh water plumbing systems."

A condition of this acceptance is that the fittings to be installed should be replicas of the samples certified by WRAS and no modification should be made to the fittings. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in fresh water plumbing systems.

For the use of the fittings in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Should you have any enquiries, please contact our Engineer Mr. Terry KUNG at tel. no. 3583 4086.

Yours faithfully,

(CHAN Chung-kun)

for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue ME/MC] - with soft copy only



Acme Sanitary Ware Co. Ltd.

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PROJECT	REF	REV	ITEM CODE	
LOCATION	DATE		PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions EMCA (PRC) Chrome plated angle valve

1/2" x 1/2" with filter

Model EM4001.505

Material/Finish Brass / Chrome Plated

Manufacturer EMCA (PRC)

Supplier Acme Sanitary Ware Co. Ltd

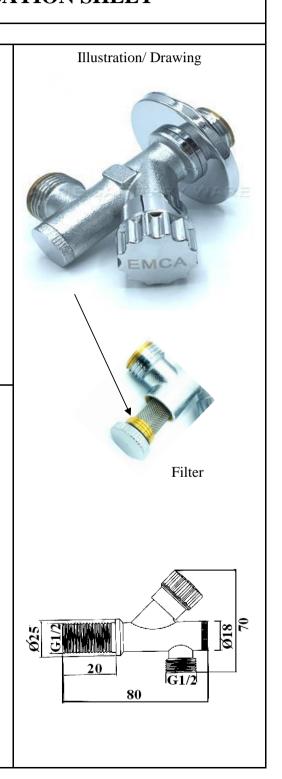
Mr. Eric Wong/ Mr. Don Yuen

Contact Tel/Fax (852) 2388-7171 / (852) 2710-8012

E-mail acme@acmesanitary.com.hk Website www.acmesanitary.com.hk

Inlet: 1/2" BSP Male Outlet: 1/2" BSP Male

Construction: Chrome Plated Brass



Note:		



水務署 Water Supplies Department

總部 Headquarters

香港灣仔告士打道七號入境事務大樓 48 樓

gration Tower, 7 Gloucester Road, Wan Chai, Hong Kong

本署權
Our ref.
來函檔號
Your ref.

21/2023 T/J(351/2023)

電話 Tel.

傳真

: 2824 0578

29 May 2023

Acme Sanitary Ware Co. Ltd. 1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong

(Attn.: Mr Perry CHOW)

Dear Sir,



Your letters ref. L005/2023 and L007/2023 dated 30 March 2023 and 27 April 2023 respectively refer.

Having considered the test report ref. J28568 issued on 24 March 2023 by Nutek Systems (HK) Ltd., this Authority accepts that the fitting described below complies with, and its use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer:

Kaiping City Doyei Sanitary Ware Corporation Limited

Country of Origin:

the Mainland of China

Brand:

EMCA

Details of Fitting:

1/2" x 1/2" Copper alloy angle valve

Model:

EM4001.505

Body Markings:

EMCA

Expiry Date:

19 January 2028





This Authority hereby permits the use of the above fitting in fresh water plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the fitting to be installed shall be replicas of the sample as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fitting installed fails to meet that of the approved sample or if the fitting is found to be unsuitable for use in the water supply systems mentioned above.

For the use of the fitting in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fitting by this Authority.

Should you have any enquiries, please contact our Engineer Ms Winnie LO at tel. no. 3583 4086.

Yours faithfully,

(YÅU Hau Yin) for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue ME/MC] - with soft copy only



TITLE Testing of Handler

J 27503C REPORT NO.

DESCRIPTION OF SAMPLE1: 1/2" Elbow Action Pillar Tap

SAMPLE SUBMITTED BY1 : ACME Sanitary Ware Co. Ltd. 1/F, Acme Building,

22-28 Nanking Street, Kowloon, Hong Kong

MANUFACTURER1 Kaiping City DOYEI Sanitary Ware Corporation Ltd.

BRAND¹ **EMCA**

COUNTRY OF ORIGIN¹ China

MODEL1 EM3505.100

BODY MARKINGS **EMCA**

PERIOD OF TESTS 21 Mar., 2022 to 23 Mar., 2022

1. OPERATING FORCE OF HANDLER CONTROL $BFA\ 2008$

Direction		Operating Fo	Daminal OD	n	
Direction	Mea	Measured Average		Required (N)	Remarks
From close position to open position	1st	2.0	200	16	с
	2nd	2.0	2.0	≤22	
	3rd	2.0			
From open position to close position	1st	2.5	2.5	≤22	С
	2nd	2.5			
	3rd	2.5	b.		

13 Apr., 2022

Authorized Signature:

Hing Kah Kuin (Engineer)

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

Page 1 of 2

| NUTEK SYSTEMS (HK) LIMITED | 13/F. Block A. Driversal Industrial Centre, 23-25 Shan Mei Birrelt, Fo Tan, New Territories, Hong Kong | Tel.: +652 2005 5736 | Fax: -652 2002 0798 | info@prulek.co | www.nutlek.co

NUTEK

REPORT NO .: J 27503C

8 10 11 MED 13 14 15 15 17 18 19 20 21 22

General Note(s)

Definitions:

C - conformance

NC - non-conformance

R - remainder

Organizations:

WSD - Water Supplies Department (of Hong Kong) WHO - World Health Organization

End of report -

Page 2 of 2

NUTEK SYSTEMS (IN) LIMITED

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Tell - #652 2005 5736 | Fax: Fox: 5822 2005/2 0788 | info@nutek.co | www.nutek.co

^{1 -} Information above provided by client





Title: Testing of Wash Basin

Method: BS 1188: 1974 & BS 3402: 1969

Report No.: J 27439

Completion: 15 Dec., 2021 to 28 Dec., 2021

Applicant (Information provided by client)

Name: Acme Sanitary Ware Co Ltd

Address: 1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong

Sample (Information provided by client)

Description: Wall Hung Washbasin

Brand : Star

Model: S-4507 Right corner taphole

S-4507L Left corner taphole

Manufacturer: Star Sanitaryware (Thailand) Co., Ltd.

Origin : Thailand

Approved Signatory

Signature: Name (title): Hing Kah Kuin (Engineer)

Date: 21 Jan., 2022

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

NUTEK SYSTEMS (HK) LIMITED

NUTEK SYSTEMS (HK) LIMITED

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Tel.: +852-2695 5736 | Fax: +652-2692 0796 | info@nuteksystems.com | www.nuteksystems.com



Summary

Test	Remark
1 Dimensions of Wash Basin	As Measured
2 Visual Examination	C
3 Water Absorption	C-2
4 Crazing	C
5 Chemical Resistance Test	C.CC
6 Resistance to Staining and Burning	€ C

Results (apply only to samples tested)

1 Dimensions of Wash Basin

85 1188: 1924 Cl. 3.4. 3.7. 4 Table 1.8.2

	Variable	Unit	Measured	BS Requirement
Length	- 20	mm	300	1
Width	The same	mm	412	1
Total surfac	e area of overflow opening	mm2	452	800 min.
Depth from outlet	top edge of rim to inside base of bowl at centre of	mm	165	165 ± 2%
Distance of	centre of outlet from extreme back	mm	133	180 ± 2%
Diameter o	f tap hole	mm	35	30 + 2
Waste	Diameter of recess for waste flange	mm	76	64 min.
	Depth of recess	mm	8.6	10 min.
	Diameter of waste hole	mm	44.4	44 min.

The dimensional requirement stated in BS 1188: 1974 are only for two sizes if wash basin:

1) Length: 620 - 650 mm, Width: 445 - 465 mm or

2) Length: 548 - 572 mm, Width: 396 - 414 mm

and do not apply to the tested sample which did not belong to either of these two sizes.

NUTEK SYSTEMS (HK) LIMITED 157F, Block A, Universal Industrial Centre, 23-25 Shan Mei Street, Fo Tan, New Yentonias, Hoog Kong Tal: +852 2605 6735 | Fac: +852 2692 0738 | inflagmutoksystems.com | www.nuteksystems.com



Report No.: J 27439

2 Visual Examination

Location	Blemish or defect	Maximum permitted	Remark
General	Wavy finish	None on all visible surfaces	С
	Warpage	Warpage of slab out of horizontal plane not to exceed 6 mm on all sizes (warpage of backs of wash basins which are attached to the wall not to exceed 3 mm)	illac)
	Discoloration	None on all visible surfaces	С
Service space, top of slab, inside of bowl, front of fascia	Spots, blister and pinholes	A total of not over two; no grouping; for coloured appliances, blister and pinhole limited to one.	с
	Bubbles and specks	A total of not over four; no grouping	С
1/1/0.	Polishing marks	One only; none permitted for coloured fictures	с
Visible surfaces other than above	Spots, blisters and pinholes	One only on back or on either side; a total of not over three.	С
	Bubbles and specks	A total of not over four; no grouping.	С
verall result		10	С

3 Water Absorption

85 3402: 1969 CL 6

ID	Weig	Weight (g)		Required	Remark
	Before Test	After Test	(%)		
Sample 1	105.33	105.51	0.17	0.75% max.	C
Sample 2	111.38	111.59	0.19		С
Sample 3	98.48	98.70	0.22	-01,	C
Average			0.19	0.50% max.	С
Overall result				34	С

4 Crazing

BS 3402: 1969 CL 7

DO STORE A	202 64 7				
ID.	Variable	Unit	Measured	Required	Remark
J.	Saturated steam	MN/m²	0.34	0.33 - 0.35	C
1	Duration	h	10	10	С
1	Sample 1		No	0.33 - 0.35	С
	Sample 2	\in-	No	No	C
	Sample 3	13 (O' No		С	
Overall res	ult	.0.			С

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5 Chemical Resistance Test

8S 3402: 1969 Cl. 8

Name of Chemical	Strength of solution	Time	Temperature
	16	heurs	*C
Acetic acid	10	16	100
Citric acid	10	16	100
Detergent (Note 1)	(Note 1)	48	60
Hydrochloric acid	(Note 2)	48	15 to 21
Sodium hydroxide	8	0.5	60
Sodium stearate	0.15	48	60
Sulphurie acid	3	16	100

10	Solution	Time (h)	Temperat- ure (*C)	Measured	Required	Remark
1	Acetic acid	etic acid 16 100 No	No Loss		С	
Citric acid 16 .100 Detergent 48 60 Hydrochloric acid 48 20 Sodium hydroxide 0.5 60 Sodium stearate 48 60	Citric acid	16	100	No Loss	No loss of	С
	Detergent	48	60	No Loss		C
	Hydrochloric acid	48	20	No Loss	reflectivity	С
	0.5	60	No Loss	on glaze	С	
	60	No Loss		С		
	Sulphuric acid	16	100	No Loss		С
verall res	sult	Cyc				C

6 Resistance to Staining and Burning

BS 3402: 1969 Cl. 9

00 0402. 1	303 Ch 3						
ID	Variable	Unit	Measured	Required	Remark		
	Methylene blue	***	No Stain	-700	C		
	Sodium hypochlorite		No Stain	all.	C		
1	Hydrogen peroxide	***	No Stain	No stain	C		
	Arnyl acetate		No Stain	remains	C		
	lodine in ethanol		No Stain		C		
(20	Lighted cigarette	***	No Stain		C		
Overall res	verall result						

NUTEK SYSTEMS (HK) LIMITED

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Testing of Wash Basin

REPORT NO J 26110

DESCRIPTION OF SAMPLE¹: "Kitty" Vitreous china wall hung washbasin

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 Star (Thailand)

MODEL1

MANUFACTURER1 Star Sanitarywares (Thailand) Co., Ltd.

COUNTRY OF ORIGIN

BS EN 14688: 2006 & BFA 2008 METHOD OF TESTS

PERIOD OF TESTS 17 Mar., 2021

1 - Information provided by client

RESULTS: (apply only to the sample tested)

SUMMARY OF RESULTS

Test	Remark
1 Load resistance	С

NUTEK SYSTEMS (HK) LIMITED

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75C1-4952 2005 5726 | Fax: 4952 2902 0798 | info@putektnystems.com | www.nzielaystems.com



REPORT NO.: J 26110

1. LOAD RESISTANCE

Variable	Unit	Sample	Requirement	Remark
Test load	kN	1.50	1.50 ± 0.01	С
Duration	h	1	1	С
Crack / Broken / Permanent distortion	1	No	No	C
Overall result				C

The sample also complies with BFA 2008 Cl. 53

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

Lam Kwai Wah, Terry (Operations Manager)

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1.3F, Block A, Universal Industrial Centre, 25-25 Shan Mei Sintet, Fo Tan, New Tentories, Hong Kong
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TITLE Testing of Exposed Surface Coating (Corrosion Resistance Test)

REPORT NO. J 28340B

DESCRIPTION OF SAMPLE 1: Chrome plated brass 1-1/4" basin waste slotted

SAMPLE SUBMITTED BY 1 :

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

MANUFACTURER1 EMCA (PRC)

EMCA BRAND1

COUNTRY OF ORIGIN¹ PRC

MODEL1 EM9010.010

BODY MARKINGS

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

PERIOD OF TESTS 16 May, 2022 to 01 Jun., 2023

- 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	(3) C

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

Naic	Reading	Requirement	Remark
Light Intensity for inspection before test (Lux)	860	700 - 1000	С
Light Intensity for inspection after test (Lux)	880	700 - 1000	С
Spray (pH)	C 9 7.0	6.5 - 7.2	С
Spray temperature (°C)	2 48	48 at 98kPa	С
Rest period (hr)	48	48 ± 1	C o
Spray time (hr)	200	≥ 200	C
Overall results			C

NUTER SYSTEMS (HK) LIMITED

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Tal., 1982 2905 5736 | Fast, 4552 2902 0798 | info@inutek.co | www.rutok.co



REPORT NO.: J 28340B

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		Co
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	13	c
Blisters	Bubbles or raised spots on the plated surface	No	No	,50	c
Wheel marks	Fine or sharp lines that remain after polishing or buffing	No	No	The.	С
Cracks	Usually caused by "hot spots" in casting or plated surface flakiness	No	No		С
Splashes	Lack of "flow" in easting or plastic injection	No	No	No	C
Dullness	Lack of full shine	No \	No	1 [С
Cuts and scratches	Scratches due to handling or knocks during transport	No	No] [С
Burns	Roughness and grey appearance of surface	No	No		C
Scaliness	Lack of "consistent cover" and flakiness of plating	No	No	1 1	С
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 resul	ts C			-3	0 C

Page 2 of 3

NUTER SYSTEMS BRIJLIMITED

1357. Ricela, Universal Inhibited Contro, 23-25 Shee Mei Street, Fe Tan, Here Terrieren, Hang Wang
Teil-1662-2655-5756. | 7-oz-752-2662-2766 | info@culen.co | sewannan.co



REPORT NO.: J 28340B

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

Call	Unit	Measured	Requirement	Remark
Affected area for appearance, A	mm_//	0	< 0.3	CAS
	%	0	≤0.1	soc c
Overall results			-0	С

Date: 06 Jun., 2023

Authorized signature:

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

Lam Kwai Wah, Terry (Operations Manager)



Figure 1 - Sample before test

General Note(s)

Definitions:

C-conformance

NC - non-conformance

- End of report -

Page 3 of 3

NUTER SYSTEMS (HK) LIMITED

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Test Report

Testing of Waste Fitting

REPORT NO. J 28340A

DESCRIPTION OF SAMPLE1: Chrome plated brass 1-1/4" basin waste slotted

SAMPLE SUBMITTED BY1

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

MANUFACTURER! EMCA (PRC)

EMCA BRAND1

COUNTRY OF ORIGIN¹

MODEL¹ EM9010.010

BODY MARKINGS

BS EN 274-1: 2002; BS EN 274-2: 2002; BS EN 274-3; 2002 METHOD OF TESTS

In-house method

PERIOD OF TESTS 09 May, 2023 to 12 May, 2023

1 - Information below provided by client

RESULTS: - (apply only to the sample tested)

STIMMARY OF RESULTS

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

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1. APPEARANCE OF SURFACES

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	ME Salitar

2. HYDRAULIC REQUIREMENTS

£	SEN 274-1: 2	002 C.L.	4.0, table 5	OC DOLLA 274-2: 2002 CL 3.1 OC 3.4	
	Variable	Unit	Measured	Requirement	Remark
	Minimum Flow Rate	1/s	0.76	≥ 0.60 for wash basin, bidet for trap alone	С

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	201

4. MATERIALS AND TEMPERATURE CYCLING TEST

Variable	5 cycles	Requirement	Visual Inspection	Remark
Sample	93 - 95 °C for 15 mins at 0.5 1/s, then 20±5°C for 10 mins at 0.5 1/s	No defect	No defect	С



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5. LEAKTIGHTNESS TEST AFTER TEMPERATURE CYCLING TEST RS EN 274, 1: 2002 CL 4.7.2 & RS EN 274, 2: 2002 CL 6.2

Variable	Water pressure (bar)	Duration (min)	Leakage	Remark
Sample	0.1	5	No	C
Waste fitting (traps)	0.1	5	No	33

Authorized Signature:

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

CHUNG Siu Yu, Alan (Engineer)

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Figure 1 - Sample



General Note(s)

Definitions: C – conformance

N-none

NC - non-conformance

R - remainder

Organizations:

WSD - Water Supplies Department (of Hong Kong) WHO - World Health Organization

- End of report -

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