

Summary of Test Results

Reference no. : BC-SUMMARY-2020-94

Customer : Purdon King (International) Limited
Address : 19/F., Tak Lee Commercial Building, 113-117 Wanchai Road, H. K.
Sample description : 1/2" Hose Union Ball Type Bibtap
Manufacturer : Pegler Yorkshire Group Limited
Brand name : Pegler
Body marking : PEGLER ENGLAND 1/2
Model no. : PB50HU
Origin : UK
Sample submitted by : Purdon King (International) Limited
Test standard : BS EN 200 : 2008 / BS EN 1982 : 2008 / AS/NZS 4020 : 2005
Test period : 14 July to 07 August 2020

Test item	Test results	Castco LRN
1) Dimensions Check (BS EN 200 Clause 6 Table 4 and 5)	Passed	BC0200616-001-MISL
2) Leaktightness Test (BS EN 200 : 2008 Clause 8.3 and 8.4)	Passed	BC0200616-001-MISL
3) Pressure Resistance (BS EN 200 : 2008 Clause 9.4 and 9.5)	Passed	BC0200616-001-MISL
3) Flow Rate (BS EN 200 : 2008 Clause 10)	The minimum flow requirement under BS EN 200 Clause 10 for the mixer is not required according to WSD circular letter no. 1/2010	BC0200616-001-MISL
4) Chemical Composition (Body) (BS EN 1982 : 2008 Table 7 Grade CC754S)	Passed	MS0200714-9
5) Chemical Composition (Ball) (BS EN 1982 : 2008 Table 7 Grade CC754S)	Passed	MS0200714-10
6) Chemical Composition (Stem) (BS EN 1982 : 2008 Table 7 Grade CC754S)	Passed	MS0200714-11
7) Testing of Products for Use in Contact with Drinking Water (AS/NZS 4020 : 2005 Appendix I)	Passed	EN0200714-1

Remark(s) :

1. Electroplating materials were observed on the internal water passage surfaces of the sample under a non-destructive and unaided visual inspection.

Prepare by : _____
Date : 08 August 2020


FU HO MAN
Assistant Technical Manager

Review by : _____
Date : 08 August 2020


WONG KA MAN
Senior Manager

Test Report
Sanitary Tapwares - Dimensions Check
(BS EN 200 : 2008 Clause 6)

Date of issue : 05 August 2020

Page 1 of 6 page(s)

Castco LRN : BC0200616-001-MISL

Details as supplied by customer

Customer : Purdon King (International) Limited

Customer's ref. no. : - -

Address : 19/F., Tak Lee Commercial Building, 113-117 Wanchai Road, H. K.

Contract no. : - -

Job title : - -

Sample description : 1/2" Hose Union Ball Type Bibtap

Manufacturer : Pegler Yorkshire Group Limited

Brand name : Pegler

Body marking : PEGLER ENGLAND 1/2

Model no. : PB50HU

Origin : UK

Sample submitted by : Purdon King (International) Limited

Laboratory test results

Date of sample received : 16 June 2020

Date of test : 14 July 2020

Specimen no.		BC0200616-002-MISL	
Dimensions	Measured mean value		Requirement
Nominal size of inlet (Inch)	1/2"		N/A
Thickness of body (mm)	2.01		N/A
Inlet Useful Thread Length (A6) (mm)	11		min. 11
Dimension from the centre of the outlet (D) (mm)	85		min. 80

Remark(s) :


1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 200 : 2008 Table 4 and 5 (effect of measurement uncertainty has not been taken into account).
3. No requirement in dimensions for thickness of is stated in the BS EN 200 : 2008 and therefore the measured dimension are used for reference.
4. Electroplating materials were observed on the internal water passage surfaces of the sample under a non-destructive and unaided visual inspection.

Checked by : _____



FU HO MAN
 Assistant Technical Manager

Certified by : _____



WONG KA MAN
 Senior Manager

Test Report

Sanitary Tapwares - Leaktightness Test
(BS EN 200 : 2008 Clause 8.3 and 8.4)

Date of issue : 05 August 2020

Page 2 of 6 page(s)

Castco LRN : BC0200616-001-MISL

Details as supplied by customer

Customer : Purdon King (International) Limited

Customer's ref. no. : - -

Address : 19/F., Tak Lee Commercial Building, 113-117 Wanchai Road, H. K.

Contract no. : - -

Job title : - -

Sample description : 1/2" Hose Union Ball Type Bibtap

Manufacturer : Pegler Yorkshire Group Limited

Brand name : Pegler

Body marking : PEGLER ENGLAND 1/2

Model no. : PB50HU

Origin : UK

Sample submitted by : Purdon King (International) Limited

Laboratory test results

Date of sample received : 16 June 2020

Date of test : 14 July 2020

Specimen no.	BC0200616-002-MISL
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1) Leaktightness of the obturator and of the tap upstream of the obturator with the obturator in the closed position (BS EN 200 : 2008 Clause 8.3)

Apply pressure (bar)	16
Maintain period (s)	60
Observation	No leakage was observed
Requirement	For the duration of the test there shall be no leakage

2) Leaktightness of the tap downstream of the obturator with the obturator open (BS EN 200 : 2008 Clause 8.4)

Apply pressure (bar)	4
Maintain period (s)	60
Observation	No leakage was observed
Re-apply pressure (bar)	0.2
Maintain period (s)	60
Observation	No leakage was observed
Requirement	For the duration of the test there shall be no leakage

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 200 : 2008 Clause 8.3 and 8.4 (effect of measurement uncertainty has not been taken into account).
3. Electroplating materials were observed on the internal water passage surfaces of the sample under a non-destructive and unaided visual inspection.

Checked by :  **FU HO MAN**
Assistant Technical ManagerCertified by :  **WONG KA MAN**
Senior Manager

Test Report

Sanitary Tapwares - Pressure Resistance
(BS EN 200 : 2008 Clause 9.4 and 9.5)

Date of issue : 05 August 2020

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Castco LRN : BC0200616-001-MISL

Details as supplied by customer

Customer : Purdon King (International) Limited

Customer's ref. no. : - -

Address : 19/F., Tak Lee Commercial Building, 113-117 Wanchai Road, H. K.

Contract no. : - -

Job title : - -

Sample description : 1/2" Hose Union Ball Type Bibtap

Manufacturer : Pegler Yorkshire Group Limited

Brand name : Pegler

Body marking : PEGLER ENGLAND 1/2

Model no. : PB50HU

Origin : UK

Sample submitted by : Purdon King (International) Limited

Laboratory test results

Date of sample received : 16 June 2020

Date of test : 14 July 2020

Specimen no.	BC0200616-002-MISL
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1) Mechanical behaviour upstream of the obturator- Obturator in the closed position (BSEN 200 : 2008 Clause 9.4)

Apply pressure (bar)	25
Maintain period (s)	60
Observation	No defect was observed
Requirement	There shall be no permanent deformation in any part

2) Mechanical behaviour downstream of the obturator - Obturator in the open position (BS EN 200 : 2008 Clause 9.5)

Apply dynamic pressure (bar)	4
Maintain period (s)	60
Observation	No defect was observed
Requirement	There shall be no permanent deformation in any part

Remark(s) :

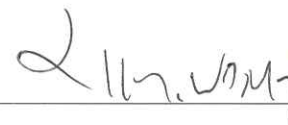
1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 200 : 2008 Clause 9.4 and 9.5 (effect of measurement uncertainty has not been taken into account).
3. Electroplating materials were observed on the internal water passage surfaces of the sample under a non-destructive and unaided visual inspection.

Checked by : _____



FU HO MAN
Assistant Technical Manager

Certified by : _____



WONG KA MAN
Senior Manager

Test Report
Sanitary Tapwares - Determination of Flow Rate
(BS EN 200 : 2008 Clause 10)

Date of issue : 05 August 2020

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Castco LRN : BC0200616-001-MISL

Details as supplied by customer

Customer : Purdon King (International) Limited

Customer's ref. no. : - -

Address : 19/F., Tak Lee Commercial Building, 113-117 Wanchai Road, H. K.

Contract no. : - -

Job title : - -

Sample description : 1/2" Hose Union Ball Type Bibtap

Manufacturer : Pegler Yorkshire Group Limited

Brand name : Pegler

Body marking : PEGLER ENGLAND 1/2

Model no. : PB50HU

Origin : UK

Sample submitted by : Purdon King (International) Limited

Laboratory test results

Date of sample received : 16 June 2020

Date of test : 14 July 2020

Specimen no.	BC0200616-002-MISL	
Apply dynamic pressure (bar)	0.1	3.0
Measured mean flow rate (L/min)	3.9	10.0

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test was conducted on specimen at maximum flow setting.
3. The minimum flow requirement under BS EN 200 : 2008 Clause 10 for the mixer is not required according to WSD circular letter no. 1/2010.
4. Electroplating materials were observed on the internal water passage surfaces of the sample under a non-destructive and unaided visual inspection.

Checked by : **FU HO MAN**
Assistant Technical Manager

Certified by : **WONG KA MAN**
Senior Manager

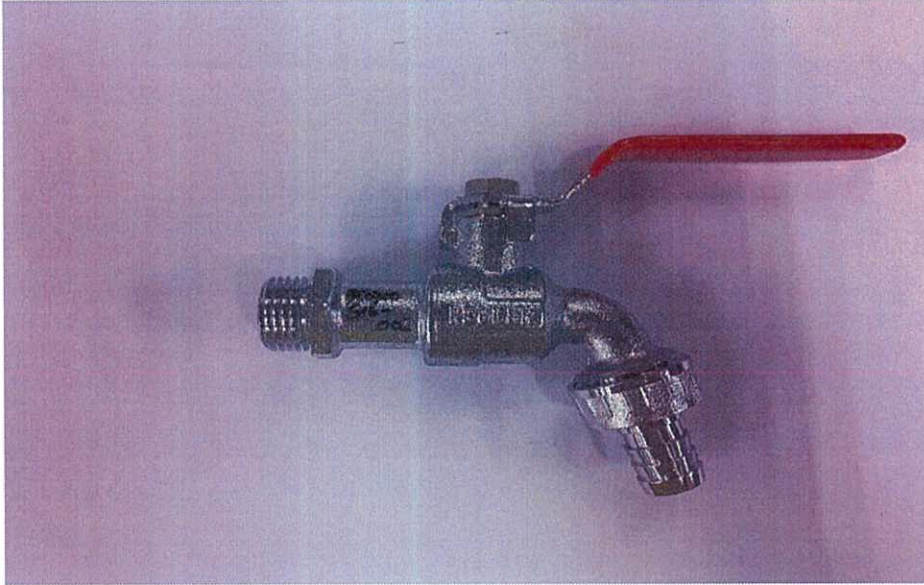
Test Report
Sanitary Tapwares - Dimensions Check
(BS EN 200 : 2008 Clause 6)

Date of issue : 05 August 2020

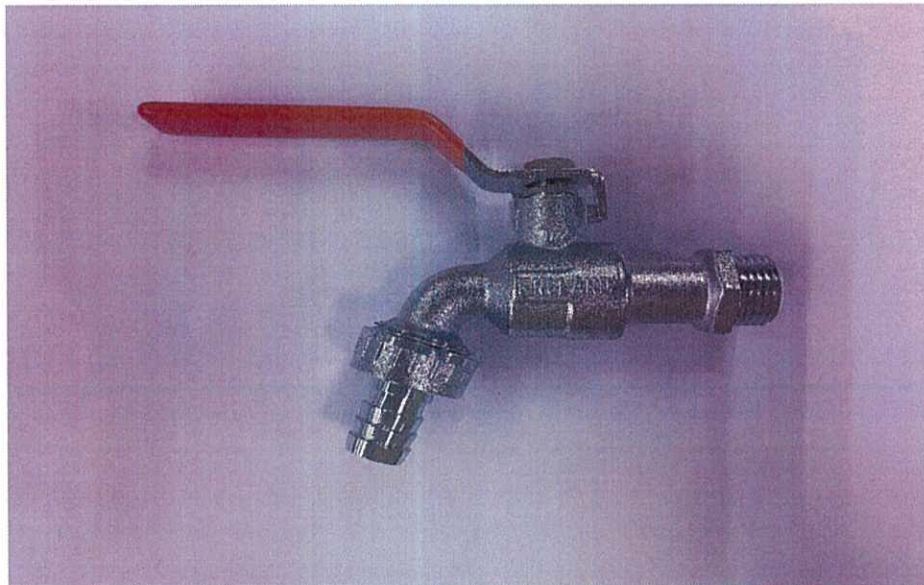
Page 5 of 6 page(s)

Castco LRN : BC0200616-001-MISL

Appendix A



BC0200616-002-MISL(1)



BC0200616-002-MISL(2)

Test Report
Sanitary Tapwares - Dimensions Check
(BS EN 200 : 2008 Clause 6)

Date of issue : 05 August 2020

Page 6 of 6 page(s)

Castco LRN : BC0200616-001-MISL

Appendix B



BC0200616-002-MISL(3)



BC0200616-002-MISL(4)

End of Report

Test Report**Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 1 of 2

Castco LRN: MS0200714-9

Details as supplied by customer

Name of Customer : Purdon King (International) Limited

Address : 19/F, Tak Lee Commercial Building, 113-117 Wanchai Road, Hong Kong

Job Title : --

Contract No. : --

Customer's Ref. No. : --

Sample details as supplied by customer

Date Sampled : --

Date of Sample Received : 14-07-2020

Test Period : 23-07-2020

Sample Description : 1/2" Hose Union Ball Type Bibtap (Body)

Specification : BS EN 1982:2008, Table 7, Grade CC754S

Specimen No. : BC0200616-002-MISL

Location of Work : -- / Model no.: PB50HU / Origin: UK

Manufacturer : Pegler Yorkshire Group Limited / Brand name: Pegler

Test Method(s):-

1) In-house ST-Multi-4 (Spark-OES)

Remark:

I. Test results only relate to the specimen tested.

Checked by :


Lau Hiu Yat
Assistant Technical Manager

Approved Signatory :


Cheng Chi Fai
Senior Manager

Test Report**Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 2 of 2

Castco LRN: MS0200714-9

Chemical Analysis		Result
1) Aluminium	Al %	0.032
1) Iron	Fe %	0.15
1) Manganese	Mn %	<0.010
1) Nickel	Ni %	0.13
1) Phosphorus	P %	<0.013
1) Lead	Pb %	1.82
1) Silicon	Si %	<0.002
1) Tin	Sn %	0.24
1) Zinc	Zn %	39.3
1) Copper	Cu %	58.3

End of Report

Form No.: CHM Cu&Cu Alloy-3 T dd 03/02/2016

Appendix A**Summary of Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 1 of 1

Related Castco LRN: MS0200714-9

Name of Customer: Purdon King (International) Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 14-07-2020

Testing Period: 23-07-2020

Castco LRN:	MS0200714-9				
Sample Description:	1/2" Hose Union Ball Type Bibtap (Body)				
Specimen No.:	BC0200616-002-MISL				
Location of Work:	-- / Model no.: PB50HU / Origin: UK				
Manufacturer:	Pegler Yorkshire Group Limited / Brand name: Pegler				
Specification: BS EN 1982:2008, Table 7, Grade CC754S				Test Results	Within / Exceed limit
Aluminium	Al	0.8 max.	%	0.032	Within limit
Iron	Fe	0.7 max.	%	0.15	Within limit
Manganese	Mn	0.5 max.	%	<0.010	Within limit
Nickel	Ni	1.0 max.	%	0.13	Within limit
Phosphorus	P	0.02 max.	%	<0.013	Within limit
Lead	Pb	0.5 to 2.5	%	1.82	Within limit
Silicon	Si	0.05 max.	%	<0.002	Within limit
Tin	Sn	1.0 max.	%	0.24	Within limit
Zinc	Zn	Remainder	%	39.3	Within limit
Copper	Cu	58.0 to 63.0	%	58.3	Within limit

Remark(s):

a. Test results only relate to the specimen tested.

b. Test results of the specimen are in compliance with the chemical requirements of BS EN 1982:2008, Table 7, Grade CC754S.

Test Report**Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 1 of 2

Castco LRN: MS0200714-10

Details as supplied by customer

Name of Customer : Purdon King (International) Limited
Address : 19/F, Tak Lee Commercial Building, 113-117 Wanchai Road, Hong Kong
Job Title : --
Contract No. : --
Customer's Ref. No. : --

Sample details as supplied by customer

Date Sampled : --
Date of Sample Received : 14-07-2020
Test Period : 23-07-2020
Sample Description : 1/2" Hose Union Ball Type Bibtap (Ball)
Specification : BS EN 1982:2008, Table 7, Grade CC754S
Specimen No. : BC0200616-002-MISL
Location of Work : -- / Model no.: PB50HU / Origin: UK
Manufacturer : Pegler Yorkshire Group Limited / Brand name: Pegler

Test Method(s):-

1) In-house ST-Multi-4 (Spark-OES)

Remark:

I. Test results only relate to the specimen tested.

Checked by :



Lau Hiu Yat

Assistant Technical Manager

Approved Signatory :



Cheng Chi Fai

Senior Manager

Test Report**Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 2 of 2

Castco LRN: MS0200714-10

Chemical Analysis		Result
1) Aluminium	Al %	0.019
1) Iron	Fe %	0.67
1) Manganese	Mn %	0.019
1) Nickel	Ni %	0.38
1) Phosphorus	P %	<0.013
1) Lead	Pb %	2.39
1) Silicon	Si %	0.004
1) Tin	Sn %	0.75
1) Zinc	Zn %	36.8
1) Copper	Cu %	58.9

End of Report

Form No.: CHM Cu&Cu Alloy-3 T dd 03/02/2016

Appendix A**Summary of Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 1 of 1

Related Castco LRN: MS0200714-10

Name of Customer: Purdon King (International) Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 14-07-2020

Testing Period: 23-07-2020

Castco LRN:	MS0200714-10				
Sample Description:	1/2" Hose Union Ball Type Bibtap (Ball)				
Specimen No.:	BC0200616-002-MISL				
Location of Work:	-- / Model no.: PB50HU / Origin: UK				
Manufacturer:	Pegler Yorkshire Group Limited / Brand name: Pegler				
Specification: BS EN 1982:2008, Table 7, Grade CC754S				Test Results	Within / Exceed limit
Aluminium	Al	0.8 max.	%	0.019	Within limit
Iron	Fe	0.7 max.	%	0.67	Within limit
Manganese	Mn	0.5 max.	%	0.019	Within limit
Nickel	Ni	1.0 max.	%	0.38	Within limit
Phosphorus	P	0.02 max.	%	<0.013	Within limit
Lead	Pb	0.5 to 2.5	%	2.39	Within limit
Silicon	Si	0.05 max.	%	0.004	Within limit
Tin	Sn	1.0 max.	%	0.75	Within limit
Zinc	Zn	Remainder	%	36.8	Within limit
Copper	Cu	58.0 to 63.0	%	58.9	Within limit

Remark(s):

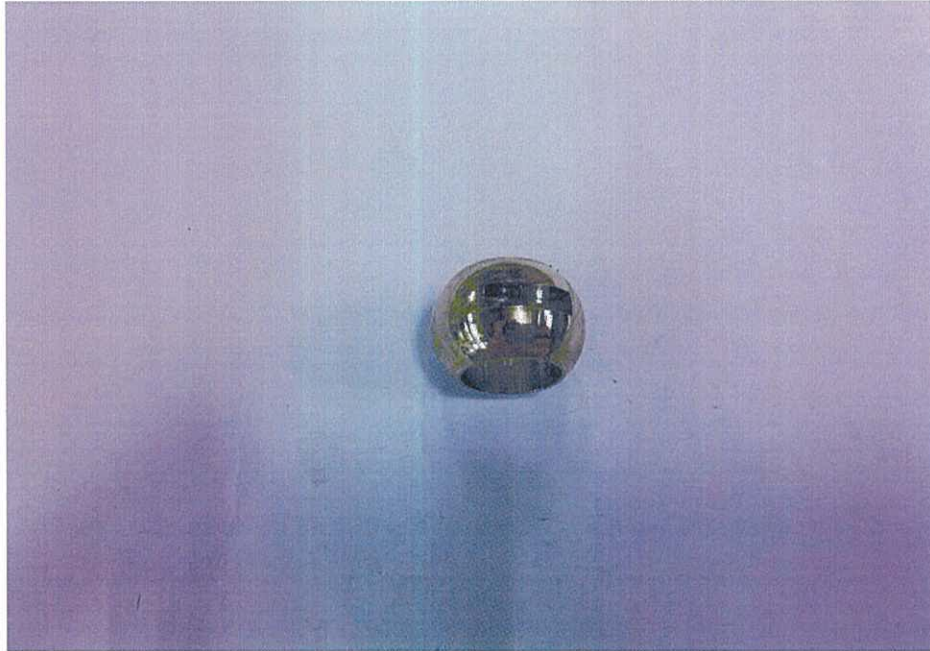
- Test results only relate to the specimen tested.
- Test results of the specimen are in compliance with the chemical requirements of BS EN 1982:2008, Table 7, Grade CC754S.

Appendix B

Date of issue : 28-07-2020

Page 1 of 1 page(s)

Related Castco LRN : MS0200714-10

Sample description : 1/2" Hose Union Ball Type Bibtap (Ball)

Test Report**Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 1 of 2

Castco LRN: MS0200714-11

Details as supplied by customer

Name of Customer : Purdon King (International) Limited
Address : 19/F, Tak Lee Commercial Building, 113-117 Wanchai Road, Hong Kong
Job Title : --
Contract No. : --
Customer's Ref. No. : --

Sample details as supplied by customer

Date Sampled : --
Date of Sample Received : 14-07-2020
Test Period : 23-07-2020
Sample Description : 1/2" Hose Union Ball Type Bibtap (Stem)
Specification : BS EN 1982:2008, Table 7, Grade CC754S
Specimen No. : BC0200616-002-MISL
Location of Work : -- / Model no.: PB50HU / Origin: UK
Manufacturer : Pegler Yorkshire Group Limited / Brand name: Pegler

Test Method(s):-

1) In-house ST-Multi-4 (Spark-OES)

Remark:

I. Test results only relate to the specimen tested.

Checked by :


Lau Hiu Yat
Assistant Technical Manager

Approved Signatory :


Cheng Chi Fai
Senior Manager

Test Report**Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 2 of 2

Castco LRN: MS0200714-11

Chemical Analysis		Result
1) Aluminium	Al %	0.043
1) Iron	Fe %	0.55
1) Manganese	Mn %	0.016
1) Nickel	Ni %	0.38
1) Phosphorus	P %	<0.013
1) Lead	Pb %	2.31
1) Silicon	Si %	0.018
1) Tin	Sn %	0.78
1) Zinc	Zn %	37.3
1) Copper	Cu %	58.5

End of Report

Form No.: CHM Cu&Cu Alloy-3 T dd 03/02/2016

Appendix A**Summary of Chemical Analysis of Copper and Copper Alloy**

Date of issue: 28-07-2020

Page 1 of 1

Related Castco LRN: MS0200714-11

Name of Customer: Purdon King (International) Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 14-07-2020

Testing Period: 23-07-2020

Castco LRN:	MS0200714-11				
Sample Description:	1/2" Hose Union Ball Type Bibtap (Stem)				
Specimen No.:	BC0200616-002-MISL				
Location of Work:	-- / Model no.: PB50HU / Origin: UK				
Manufacturer:	Pegler Yorkshire Group Limited / Brand name: Pegler				
Specification: BS EN 1982:2008, Table 7, Grade CC754S				Test Results	Within / Exceed limit
Aluminium	Al	0.8 max.	%	0.043	Within limit
Iron	Fe	0.7 max.	%	0.55	Within limit
Manganese	Mn	0.5 max.	%	0.016	Within limit
Nickel	Ni	1.0 max.	%	0.38	Within limit
Phosphorus	P	0.02 max.	%	<0.013	Within limit
Lead	Pb	0.5 to 2.5	%	2.31	Within limit
Silicon	Si	0.05 max.	%	0.018	Within limit
Tin	Sn	1.0 max.	%	0.78	Within limit
Zinc	Zn	Remainder	%	37.3	Within limit
Copper	Cu	58.0 to 63.0	%	58.5	Within limit

Remark(s):

a. Test results only relate to the specimen tested.

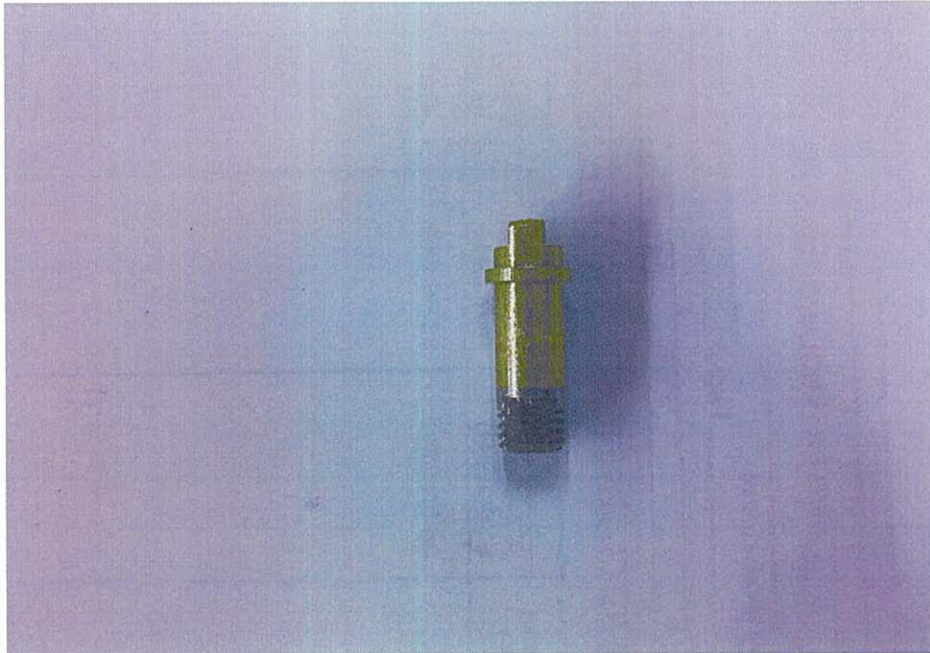
b. Test results of the specimen are in compliance with the chemical requirements of BS EN 1982:2008, Table 7, Grade CC754S.

Appendix B

Date of issue : 28-07-2020

Page 1 of 1 page(s)

Related Castco LRN : MS0200714-11

Sample description : 1/2" Hose Union Ball Type Bibtap (Stem)



Test Report

Testing of products for use in contact with drinking water

Date of issue: 07-08-2020

Page 1 of 2

Castco LRN: EN0200714-1

Details as supplied by customer

Name of Customer : Purdon King (International) Limited
Address : 19/F, Tak Lee Commercial Building, 113-117 Wanchai Road, Hong Kong
Job Title : --

Sample details as supplied by customer

Date of Sample Received : 14-07-2020
Test Period : 01-08-2020 to 07-08-2020
Sample Description : 1/2" Hose Union Ball Type Bibtap
Model No. : PB50HU
Brand Name : Pegler
Manufacturer : Pegler Yorkshire Group Limited
Origin : UK
Body Marking : PEGLER ENGLAND 1/2

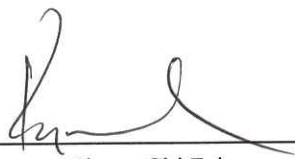
Test Method(s):

- 1) AS/NZS 4020:2005 Appendix I - Extraction of Metals

Remarks:

- I. Test results only relate to the specimen tested.
- II. End-of-line fittings
- III. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. Castco therefore assumes no responsibility for the accuracy of information on the brand name, origin of manufacture, consignment or any information supplied.

Checked by : 
Au Kwok Kin
Assistant Technical Manager

Approved Signatory : 
Cheng Chi Fai
Senior Manager



Test Report

Testing of products for use in contact with drinking water

Date of issue: 07-08-2020

Page 2 of 2

Castco LRN: EN0200714-1

Test Period : 01-08-2020 to 07-08-2020

Model No. : PB50HU

Specimen No. : BC0200616-002-MISL

Extraction Temperature : 20°C

Item	Metal Elements	Test Water Blank (µg/L)	1/2" Hose Union Ball Type Bibtap (µg/L)		Reporting Limit (µg/L)	AS/NZS 4020 Limit (µg/L)
			sample 1	sample 2		
1	Chromium	<1.0	<1.0	<1.0	1.0	50
2	Nickel	<1.0	<1.0	<1.0	1.0	20

End of Report

Appendix A

Date of issue: 07-08-2020

Page 1 of 1 pages

Castco LRN: EN0200714-1

Description of Sample: 1/2" Hose Union Ball Type Bibtap

