Date: 05 JUL 2010 Tel: +65 68851346 Fax: +65 67732912

Client's Ref: - Email: Yin-Pheng.LEONG@tuv-sud-psb.sg

Note: This report is issued subject to TÜV SÜD PSB's "Terms and Conditions Governing Technical Services". The terms and conditions governing the issue of this report are set out as attached within this report.



Choose certainty.
Add value.

SUBJECT

Testing of KIKO Stone sample for Use in Contact with Water Intended for Human Consumption with Regard to their Effect on the Quality of the Water (High Temperature Tests).

CLIENT

WhiteCrane (SG) Pte Ltd 44 Jalan Tari Piring Singapore 799197

Attn: Ms. Angi Ng

SAMPLE SUBMISSION DATE / TEST DATE

03 May 2010 / 04 May 2010

DESCRIPTION OF SAMPLE

One sample consisting of 6 pieces of KIKO Stones System.





LA-2007-0380-A LA-2007-0380-A-1 LA-2007-0381-F LA-2007-0382-B LA-2007-0383-G LA-2007-0385-E LA-2007-0386-C

The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests/Calibrations marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our laboratory.

TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive

Singapore 118221

Phone: +65-6885 1333 Fax: +65-6776 8670 E-mail: testing@tuv-sud-psb.sg www.tuv-sud-psb.sg Co. Reg: 199002667R

Regional Head Office: TÜV SÜD Asia Pacific Pte. Ltd. 3 Science Park Drive, #04-01/05 The Franklin, Singapore 118223

05 JUL 2010



METHOD OF TEST

Singapore Standard 375: 2001 "Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water".

- Part 1 "Specification"
- Part 2:1 "Method of test Samples for testing"
- Part 2:2.1 "Methods of test Odour and flavour of water General method of test"
- Part 2:3 "Methods of test Appearance of water"
- Part 2:5 "Methods of test The extraction of substances that may be of concern to public health (Cytotoxicity test)"
- Part 2:6 "Methods of test The extraction of metals"
- Part 3 "High temperature tests"

British Standard 6920: 2000 is endorsed as Singapore Standard 375: 2001.

RESULTS

(1) Odour and Flavour of Water

Extraction temperature: 85°C

- 1.1 All the panelists reported no discernable odour in the 24 hour chlorinated and unchlorinated extracts and no discernable flavour in the first and second dilutions of the same extract.
- 1.2 The results obtained show that the sample complies with the requirements of SS 375 : Part 2.2.1 for the odour and flavour of water test.

(2) Appearance of Water

Extraction temperature: 85°C

2.1 Colour and Turbidity of the first extract of single sample.

Test	Sample	Requirements of SS 375 : Part 1 : Specification (Maximum admissible level)
Colour (Hazen units)	5	Less than 5
Turbidity (FNU)	0.26	0.5

2.2 The results obtained show that the sample complies with the requirements of SS 375 : Part 2.3 for the appearance of water test.

05 JUL 2010



RESULTS (cont'd)

(3) The Extraction of Substances that may be of concern to public health

Extraction temperature: 85°C

- 3.1 The extracts from the sample and the blank were used to prepare culture media for use with the Monkey Kidney Cell Line (Vero ATCC CCL81).
- 3.2 The extract from the single sample exhibited confluent growth of cells, thus indicating a non-cytotoxic response.
- 3.3 The test reagent blank exhibited confluent growth of cells.
- 3.4 The results obtained show that the sample complies with the requirements of SS 375 : Part 2:5 for the cytotoxicity test.

(4) The Extraction of Metals (Elemental Analysis by ICP-MS)

Extraction temperature: 85°C

4.1 Concentration of metals determined in the second extracts of two samples.

Metal	Sample 1	Sample 2	Requirements of SS 375 : Part 1 : Specification (Maximum allowable concentration)
Aluminium, Al μg/l	< 20	< 20	200
Antimony, Sb μg/l	< 0.5	< 0.5	5
Arsenic, As μg/l	< 1.0	< 1.0	10
Barium, Ba μg/l	< 100	< 100	700
Cadmium, Cd μg/l	< 0.5	< 0.5	3
Chromium, Cr μg/l	< 5.0	< 5.0	50
Iron, Fe μg/l	< 20	< 20	200
Lead, Pb μg/l	< 1.0	< 1.0	10
Manganese, Mn μg/l	< 5.0	< 5.0	50
Mercury, Hg μg/l	< 0.1	< 0.1	1
Nickel, Ni μg/l	< 2.0	< 2.0	20
Selenium, Se μg/l	< 1.0	< 1.0	10
Silver, Ag μg/l	< 1.0	< 1.0	10

4.2 The results obtained show that the sample complies with the requirements of SS 375 : Part 2.6 for the extraction of metals test.

CHM_jun Page 3 of 5

05 JUL 2010



RESULTS (cont'd)

Notes:

FNU: Formazine nephelometric unit

μg/l : micrograms per litre

< : Less than

The above test results relate to the sample as received.

Remarks:

The above results show that the sample complies with the requirements of SS 375 : Part 3 : 2001 'High Temperature Tests' and is deemed suitable for use in contact with hot water (85° C) intended for human consumption.

MS AW HWEE YING
TECHNICAL EXECUTIVE

MRS KAM-LEONG YIN PHENG
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS

CHM_jun Page 4 of 5

05 JUL 2010



This Report is issued under the following conditions:

- 1. Results of the testing/calibration in the form of a report will be issued immediately after the service has been completed or terminated.
- Unless otherwise requested, this report shall contain only technical results carried out by TÜV SÜD PSB. Analysis and interpretation of the
 results and professional opinion and recommendations expressed thereupon, if required, shall be clearly indicated and additional fee paid for,
 by the Client.
- 3. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
- 4. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
- 5. Additional copies of the report are available to the Client at an additional fee. No third party can obtain a copy of this report through TÜV SÜD PSB, unless the Client has authorised TÜV SÜD PSB in writing to do so.
- 6. TÜV SÜD PSB may at its sole discretion add to or amend the conditions of the report at the time of issue of the report and such report and such additions or amendments shall be binding on the Client.
- 7. All copyright in the report shall remain with TÜV SÜD PSB and the Client shall, upon payment of TÜV SÜD PSB's fees for the carrying out of the tests/calibrations, be granted a license to use or publish the report to the third parties subject to the terms and conditions herein, provided always that TÜV SÜD PSB may at its absolute discretion be entitled to impose such conditions on the license as it sees fit.
- 8. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
- This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
- 10. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

March 2010