

**Test Report**  
**Non-Metallic Material & Products Testing**

Date of issue: 13-03-2019

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Castco LRN: 180627-0001

**Details as supplied by customer**

Name of Customer : Wah Hung Fire Prevention Equipment Co., Limited

Address : G/F, No.75 Bedford Road, Tai Kok Tsui, Kowloon, Hong Kong

Job Title : --

Customer's Ref. No. : --

Contract No. : --

**Sample details as supplied by customer**

Date of Sample Received : 27-06-2018

Test Period : 03-07-2018 to 21-11-2018

Sample Description : Epoxy Powder Coating

Brand Name : WAH HUNG

Manufacturer : Wah Nan Fire Fighting Equipment Co., Ltd.

**Test Method(s):**

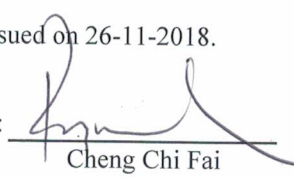
Part 2 :

- Section 2.2 : BS 6920-2.2.1:2000 + A3:2014 Odour and Flavour of Water
- Section 2.3 : BS 6920-2.3:2000 + A1:2014 Appearance of Water
- Section 2.4 : BS 6920-2.4:2000 + A1:2014 Growth of Aquatic Micro-Organisms Test
- Section 2.5 : BS 6920-2.5:2000 + A2:2014 The extraction of substances that may be of concern to public health
- Section 2.6 : BS 6920-2.6:2000 + A2:2014 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 - The extraction of metals

**Remarks:**

- I. Test results only relate to the specimen tested and showed on Appendix I.
- II. 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.
- III. This test report supersedes previous test report of Castco LRN: 180627-0001 issued on 26-11-2018.

Checked by :   
Au Kwok Kin  
Assistant Technical Manager

Approved Signatory :   
Cheng Chi Fai  
Senior Manager

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### Section 2.2 : Odour and Flavour of Water

Extraction Temperature : 23°C

Surface area of the sample : 30000 mm<sup>2</sup>

Cal. Mark of test container : 2000 mL

Extraction Solution		Result	
		Chlorine-Free Water	Chlorinated Water
First extract	Odour	No	No
	Flavour	No	No
Seventh extract	Odour	--	--
	Flavour	--	--

### Section 2.3 : Appearance of Water

Extraction Temperature : 23°C

Surface area of the sample : 30000 mm<sup>2</sup>

Cal. Mark of test container : 2000 mL

Extraction Solution		Result	Requirement of BS6920
First extract	Turbidity (FNU)	<0.5	≤0.5
	Color (CU)	<5	≤5
Seventh extract	Turbidity (FNU)	--	
	Color (CU)	--	

### Remarks:

I. This test report supersedes previous test report of Castco LRN: 180627-0001 issued on 26-11-2018.

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**Section 2.4 : Growth of Aquatic Micro-Organisms Test**Extraction Temperature : 30°CSurface area of the sample : 30000 mm<sup>2</sup>Cal. Mark of test container : 2000 mL

Specimens	Result	
	Dissolved oxygen (mg/L)	
	*MDOD	BS Requirement
Test Product (Single sample)	0.3	<1.69
Glass (Negative reference)	-0.3	MDOD = 0.0 ± 0.6
Paraffin wax (Positive reference)	5.1	MDOD = 7.5 ± 2.5

Remark(s):

The mean dissolved oxygen concentration of the control was 7.2 mg/L. (BS Requirement: 8.5 ± 2.5)

\*MDOD = Mean dissolved oxygen difference

**Section 2.5 : The extraction of substances that may be of concern to public health**Extraction Temperature : 23°CSurface area of the sample : 30000 mm<sup>2</sup>Cal. Mark of test container : 2000 mL

Specimens	Result	Remark
Test Product (All form a confluent health monolayer)	Yes	Non-cytotoxic
Test reagent Blank (All form a confluent health monolayer)	Yes	Non-cytotoxic

**Remarks:**

I. This test report supersedes previous test report of Castco LRN: 180627-0001 issued on 26-11-2018.



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#### Section 2.6 : 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 - The extraction of metals

Extraction Temperature : 23°C

Surface area of the sample : 30000 mm<sup>2</sup>

Cal. Mark of test container : 2000 mL

Metal	Test results (µg/L)		Maximum allowable concentrations (µg/L)	Method
	First extraction			
	Sample 1	Sample 2		
Boron	<5.0	<5.0	1000	ICP-MS
Aluminium	<5.0	<5.0	200	
Chromium	<1.0	<1.0	50	
Manganese	<5.0	<5.0	50	
Iron	<5.0	<5.0	200	
Nickel	<1.0	<1.0	20	
Arsenic	<1.0	<1.0	10	
Selenium	<1.0	<1.0	10	
Cadmium	<0.50	<0.50	5	
Antimony	<0.50	<0.50	5	
Mercury	0.47	0.40	1	
Lead	<1.0	<1.0	10	

#### Remark(s):

- 1) The maximum allowable concentrations are according to BS 6920:2014 (Part 1: Specification) Table 1
- 2) This test report supersedes previous test report of Castco LRN: 180627-0001 issued on 26-11-2018.

### Summary of Results

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#### Sample Description : Epoxy Rowder Coating

Standard	Test	Compliance with BS 6920, Part 1:2014 (cold water)
BS 6920, Section 2.2.1 : 2014	Odour and Flavour	Pass
BS 6920, Section 2.3 : 2014	Appearance	Pass
BS 6920, Section 2.4 : 2014	Growth of aquatic micro-organisms	Pass
BS 6920, Section 2.5 : 2014	Extraction of substances that may be of concern to public health	Pass
BS 6920, Section 2.6 : 2014	Extraction of metal	Pass

**Remarks:**

I. This test report supersedes previous test report of Castco LRN: 180627-0001 issued on 26-11-2018.

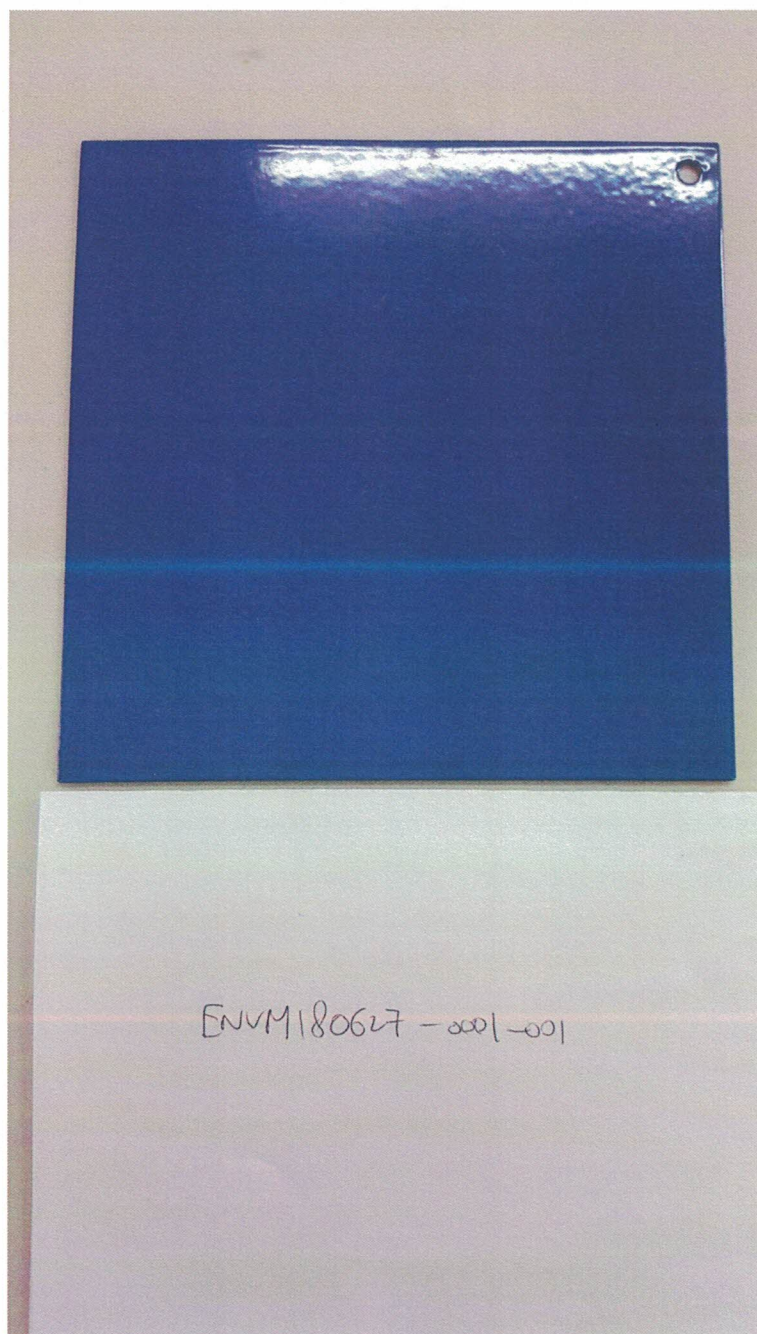
### End of Report

**Appendix I**  
**(Photo of sample)**

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**Remarks:**

I. This appendix I supersedes previous appendix I of Castco LRN: 180627-0001 issued on 26-11-2018.



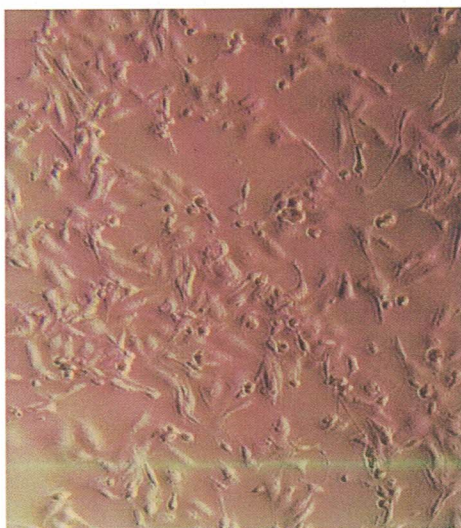
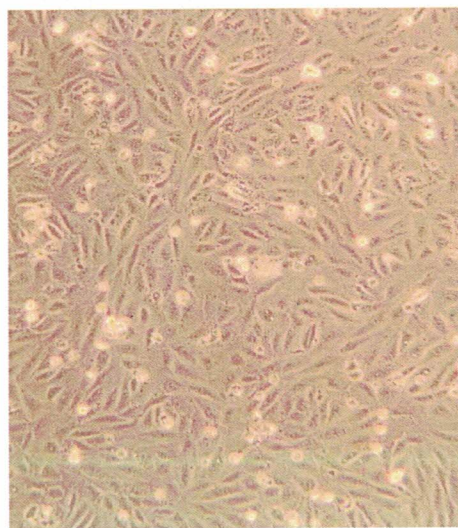
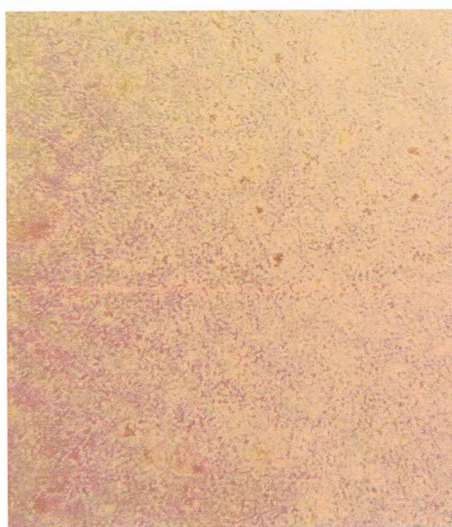
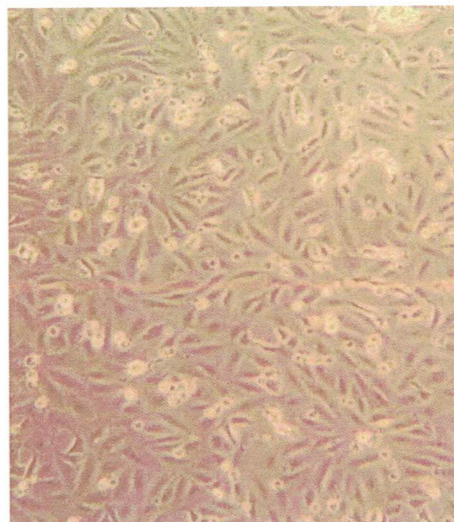
**Appendix II****(BS 6920-2.5:2000 + A2:2014 The extraction of substances that may be of concern to public health)**

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Sample: Epoxy Powder Coating

SampleBlankZinc SulphateCells only**Remarks:**

I. This appendix II supersedes previous appendix II of Castco LRN: 180627-0001 issued on 26-11-2018.