



**TEST REPORT**

Report No: METS-R 03/2021

**SUITABILITY OF NON-METALLIC PRODUCTS FOR USE IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION WITH REGARD TO THEIR EFFECT ON THE QUALITY OF WATER**

**Client / Establishment** : M/s. Anchor Allied Factory LLC  
P.O Box: 21152, Sharjah  
United Arab Emirates

Sample ID : METS-S21-03  
Sample Receiving Date : 02/01/2021  
Reporting Date : 03/03/2021  
Date of Analysis : 02/01/2021-03/03/2021  
Tested by : AL/AB  
Issue No : 01 (Re-Issue Date: NA)

**Sample Information:**

Sample Description : Asmaco 2680 FG  
Color : Clear  
Date : 30/12/2020  
Sample Reference : 114/2020

**Brief Evaluation of the Results:**

	Test	Compliance
METS-S21-03	Chemical & Microbiological Analysis	Pass

*The corresponding test results are furnished in following page*

Prepared by

Microbiologist  
Biological Science Division (BSD)  
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Verified by

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Employee Code: METS AJ EC 103

Issue No: 2  
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Test Method: BS 6920:2014

Test summary

The specimens were immersed with known amount of potable water and stored at a temperature of 50°C. Seven extractions were performed on the sample as 24 hours, 72 hours and 5 cycles of 24 hours at the same temperature of 50°C. The seventh extract was subjected to the chemical analysis for leachable contaminants of toxic metal and organic compounds.

Chemical analysis of the extracted solution was carried out as per BS 6920 Part 1:2014.

Description	Normal Distilled Water (Blank)	Sample Extract (Water after fill in the sample)	Specification limit: BS 6920 Part 1: 2014
Odour	No Discernable Odour	No Discernable Odour	No Discernable Odour
Flavour	No Discernable Flavour	No Discernable Flavour	No Discernable Flavour
pH	6.56	6.67	-
Chloride (mg/L)	14	16.7	-
Total chlorine (mg/L)	<0.02	<0.02	-
Free chlorine (mg/L)	<0.02	<0.02	-
Total suspended solids (mg/L)	<1	<1	-
Electrical conductivity (µS/cm)	31	41	-

Leaching Tests: Extraction of Metals

Description	Normal Distilled Water (Blank)	Sample Extract (Water after fill in the sample)	Specification limit: BS 6920 Part 1: 2014
<u>Metals</u>	<u>Results (µg/L)</u>		
Aluminum (Al)	<10	<10	Max. 200
Antimony (Sb)	<5	<5	Max. 5
Arsenic (As)	<10	<10	Max. 10
Barium (Ba)	<10	<10	Max. 1000





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**Test Result:**

Description		Normal Distilled Water (Blank)	Sample Extract (Water after fill in the sample)	BS 6920 Part 1: 2014 Specification limit
Iron	(Fe)	<10	<10	Max. 200
Lead	(Pb)	<10	<10	Max. 25
Manganese	(Mn)	<10	<10	Max. 50
Mercury	(Hg)	<1	<1	Max. 1
Silver	(Ag)	<10	<10	Max. 10
Nickel	(Ni)	<10	<10	Max. 20
Selenium	(Se)	<10	<10	Max. 10
Cadmium	(Cd)	<5	<5	Max. 5
Chromium	(Cr)	<10	<10	Max. 50

<b>Comments on appearance changes of tested sample</b>	At the end of the test procedure, there was no discoloration or gloss loss observed on the sample.
<b>Organic Compounds</b>	No toxic organic compounds were detected from the extracted samples.



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**Results of Microbiological Analysis:**

**Growth of Aquatic Microorganisms**

Method: BS 6920 Part 2 Clause 6: Section 26

Test Duration: 7 weeks

Test Description	Mean Dissolved Oxygen values (mg/L)
Water in contact with the product	4.00
Negative control	5.60

Description	Result (mg/L)	Limit (mg/L)
The mean dissolved oxygen difference (MDOD) between the water which is in contact with the product and negative control after 7 weeks	1.6	Pass (As DO variation is <2.39)

The above test results are only applicable to the sample(s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.

For further clarification of reports, please contact [qc@metslab.com](mailto:qc@metslab.com)

-End of Report-



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