

SIRIM TESTING SERVICES DEPARTMENT



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TEST REPORT



ISO/IEC G 25
TESTING

SAMM NO. 087

Testing Distinguishes Quality



SIRIM QAS SDN. BHD. (Company No. 410334-X)

Block 16, SIRIM Complex, 1, Persiaran Dato' Menteri, P.O Box 7035, 40911 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel. No. : 03-55446682/55446651 Fax No. : 03-55446688

TEST REPORT

REPORT NO. : 2001KL0700	NUMBER OF PAGES : 1 OF 4
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Issued by : Chemical Testing Section, Testing Services Department

Issue date : 30th August 2001

Product : Glass Fibre Reinforced Polyester Resin

Reference standard/ : BS 6920 : Part 1 and Part 2 (Section 2.3, 2.4 and 2.6)
Method of test : (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)

Applicant : WATERCO (FAR EAST) SDN BHD
Lot B 30/60 10 km Jalan Kepong
52000 Kuala Lumpur

Description of sample : Received one (1) sample of **Glass Fibre Reinforced Polyester Resin**
for testing which was labelled as : **MICRON FILTER S700**

Date received : 6th July 2001

Job. No : 01TSD2015

.....
(KUZIAH AHMAD, AMIC)
Senior Technical Executive

Approved by :

.....
(NORLIA MUSA, AMIC)
Manager
Chemical Testing Section
Building 16
SIRIM QAS SDN. BHD.

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Test Results

Test : Appearance of Water

Sample : Glass Fibre Reinforced Polyester Resin

Sample marked : MICRON FILTER S700

No.	Type of Tests	Techniques Used	Requirement under BS 6920 : 2000 Part 1 : Clause 5	Test results after extraction		
				Control	Sample	Net Increase
1.	Colour as Colour Unit*	Colour Comparator	The increase in colour and turbidity of the water in the final extract shall not be more than 5 standard units (of colour) or 0.5 NTU respectively	Less than 5	Less than 5	Less than 5
2.	Turbidity, NTU*	Turbidimeter		0.4	.0.5	0.1

* The final extracts for Colour and Turbidity tests were after the first 24 hrs.

Comment : The sample tested complied with the requirements of BS 6920 : Part 1 : 2000 : Clause 5



KUZIAH AHMAD, AMIC
Senior Technical Executive
Chemical Testing Section
SIRIM QAS SDN. BHD.

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Test Results

Test : Growth of Aquatic Organisms

Sample : Glass Fibre Reinforced Polyester Resin

Sample marked : MICRON FILTER S700

Type of Test	Requirement under BS 6930 : Part 1 : 2000 : Clause 6	Test Results		
		After 5 th week	After 6 th week	After 7 th week
The mean dissolved oxygen difference (MDOD), mg/L	2.39 or less	0.1	0.1	0.1

Comment : The sample tested complied with the requirements of BS 6920 : Part 1 : 2000 : Clause 6



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Test Results

Test : Extraction of Metals
Sample : Glass Fibre Reinforced Polyester Resin
Sample marked : MICRON FILTER S700

No.	Type of Tests	Techniques Used	Requirement under BS 6920 : 2000 Part 1 : Clause 8 (maximum allowed)	The results after 24 hours extraction/final extraction ⁽¹⁾
1.	Aluminium (as Al), mg/L	APHA 3500-Al C	0.2	Less than 0.04
2.	Barium (as Ba), mg/L	APHA 3500 – Ba C	1.0	Less than 0.001
3.	Chromium (as Cr), mg/L	APHA 3500 – Cr C	0.05	Less than 0.01
4.	Iron (as Fe), mg/L	APHA 3500 – Fe C	0.2	Less than 0.01
5.	Manganese (as Mn), mg/L	APHA 3500 – Mn C	0.05	Less than 0.002
6.	Nickel (as Ni), mg/L	APHA 3500 – Ni C	0.05	Less than 0.01
7.	Lead (as Pb), mg/L	APHA 3500 – Pb C	0.05	Less than 0.04
8.	Silver (as Ag), mg/L	APHA 3500 – Ag C	0.01	Less than 0.005
9.	Cadmium (as Cd), mg/L	APHA 3500 – Cd C	0.005	Less than 0.003
10.	Arsenic (as As), mg/L	Hydride Generation AAS ⁽²⁾	0.05	Less than 0.01
11.	Antimony (as Sb), mg/L	Hydride Generation AAS	0.01	Less than 0.01
12.	Mercury (as Hg), mg/L	Hydride Generation AAS	0.001	Less than 0.001
13.	Selenium (as Se), mg/L	Hydride Generation AAS	0.01	Less than 0.01

Note : (1) Since results of test after 24 hours extraction comply with the requirements, this first extract is defined as the final extract.

(2) AAS – Atomic Absorption Spectrometer

Comment : The sample tested complied with the requirements of BS 6920 : Part 1 : 2000 : Clause 8


KUZIAH AHMAD, AMIC
 Senior Technical Executive
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