

# TEST Report

**REPORT NUMBER**

170608010SHF-BP-12

**ISSUE DATE**

2017/8/25

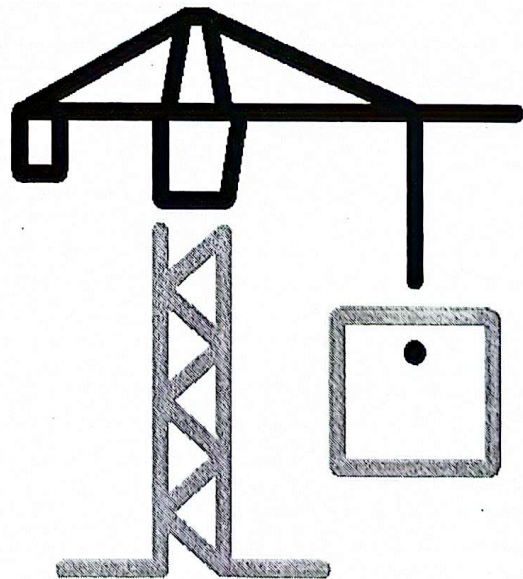
**PAGES**

4

**DOCUMENT CONTROL NUMBER**

LFT-APAC-SHF-OP-10a

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## Test Report

Issue Date: 2017/8/25

Intertek Report No. 170608010SHF-BP-12

Applicant : ProGeneus Pty Ltd  
Applicant Address : 7, Winter Avenue Kellyville NSW 2155 Australia  
Attn: Zhengjin

**SUBJECT:** Performance testing  
Magnesium Mineral Board

Dear Sir,

This test report for represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS		
Refer to the next following Pages		

SAMPLE ID	MODEL	SPECIFICATION
S170608010SHF.001	/	2400mm*1200mm*6mm

SAMPLE RECEIVED: 2017/4/24  
TESTED FROM: 2017/6/8 TO 2017/7/25

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Issue Date: 2017/8/25

Intertek Report No. 170608010SHF-BP-12

### Test Items, Method and Results:

Test item: Volatile organic compounds content analysis

Test method: With reference to ASTM D5116-10 Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.

Test procedure:

The sample was tested in the emission test chamber. After 7 days, chamber air samples were collected. Samples analyzed for individual VOCs and TVOC were collected on sorbent tubes Tenax TA, and were detected by Automatic Thermal Desorption-Gas Chromatography/Mass Spectrometric (ATD-GC/MS). Samples analyzed for aldehydes were collected on DNPH cartridge, and were detected by High Performance Liquid Chromatography (HPLC).

Test condition:

Test chamber: 1.0 m<sup>3</sup>

Exposed sample surface area: 1.0 m<sup>2</sup>

Loading factor: 1.0 m<sup>2</sup>/m<sup>3</sup>

Supply air temper: 23°C±1°C

Supply air humidity: 50%±5% R.H.

Air exchange rate: 1.0 h<sup>-1</sup>

Area specific flow rate: 1.0 m/h

Sampling: Tenax TA & DNPH cartridge

Test result:

No.	Compound Name	CAS Number	Chamber Concentration (µg/m <sup>3</sup> )	Emission Factor (µg/m <sup>2</sup> ·h)
1	Acetaldehyde <sup>#</sup>	75-07-0	ND	< 2
2	Benzene	71-43-2	ND	< 2
3	Carbon disulfide	75-15-0	ND	< 2
4	Carbon tetrachloride	56-23-5	ND	< 2
5	Chlorobenzene	108-90-7	ND	< 2
6	Chloroform	67-66-3	ND	< 2
7	Dichlorobenzene (1,4-)	106-46-7	ND	< 2
8	Dichloroethylene (1,1)	75-35-4	ND	< 2
9	Dimethylformamide (N,N-)	68-12-2	ND	< 2
10	Dioxane (1,4-)	123-91-1	ND	< 2
11	Epichlorohydrin	106-89-8	ND	< 2
12	Ethylbenzene	100-41-4	ND	< 2
13	Ethylene glycol	107-21-1	ND	< 2
14	Ethylene glycol monoethyl ether	110-80-5	ND	< 2
15	Ethylene glycol monoethyl ether acetate	111-15-9	ND	< 2





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Intertek Report No. 170608010SHF-BP-12

16	Ethylene glycol monomethyl ether	109-86-4	ND	< 2
17	Ethylene glycol monomethyl ether acetate	110-49-6	ND	< 2
18	Formaldehyde <sup>#</sup>	50-00-0	ND	< 2
19	Hexane (n-)	110-54-3	ND	< 2
20	Isophorone	78-59-1	ND	< 2
21	Isopropanol	67-63-0	ND	< 2
22	Methyl chloroform	71-55-6	ND	< 2
23	Methylene chloride	75-09-2	ND	< 2
24	Methyl t-butyl ether	1634-04-4	ND	< 2
25	Naphthalene	91-20-3	ND	< 2
26	Phenol	108-95-2	ND	< 2
27	Propylene glycol monomethyl ether	107-98-2	ND	< 2
28	Styrene	100-42-5	ND	< 2
29	Tetrachloroethylene	127-18-4	ND	< 2
30	Toluene	108-88-3	ND	< 2
31	Trichloroethylene	79-01-6	ND	< 2
32	Vinyl acetate	108-05-4	ND	< 2
33~35	Xylenes, technical mixture (m-, o-, p-xylene combined)	108-38-3 95-47-6 106-42-3	ND	< 2
36	1,2,4-trimethylbenzene	95-63-6	ND	< 2
37	Ethanol, 2-butoxy	111-76-2	ND	< 2
38	TVOC	/	ND	< 10

Remark:

# = indicates aldehydes identified and quantified by DNPH derivatization and HPLC/DAD analysis.

TVOC means sum of the concentrations of all identified and unidentified VOCs between and including n-hexane through n-Hexadecane (i.e., C<sub>6</sub>-C<sub>16</sub>) as measured by the GC/MS TIC method and expressed as a toluene equivalent value.

Detection limit of individual compound = 2 µg/m<sup>3</sup>

Detection limit of TVOC = 10 µg/m<sup>3</sup>

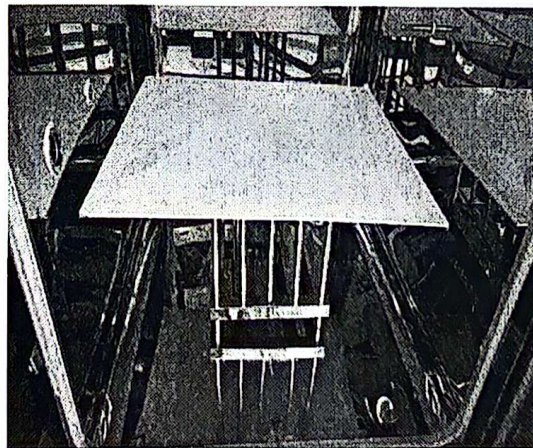
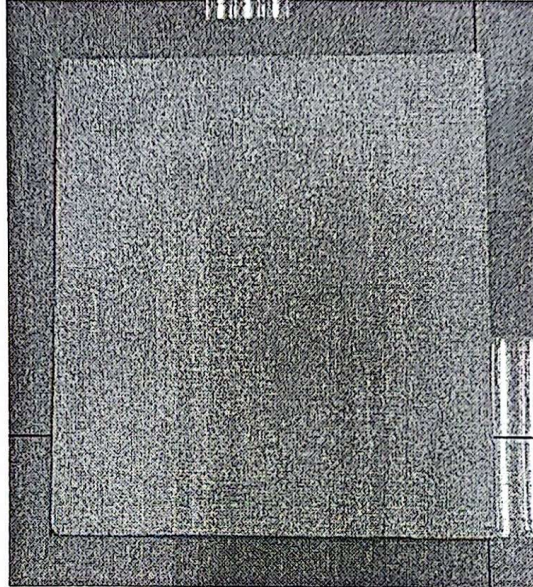


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Test Photo:



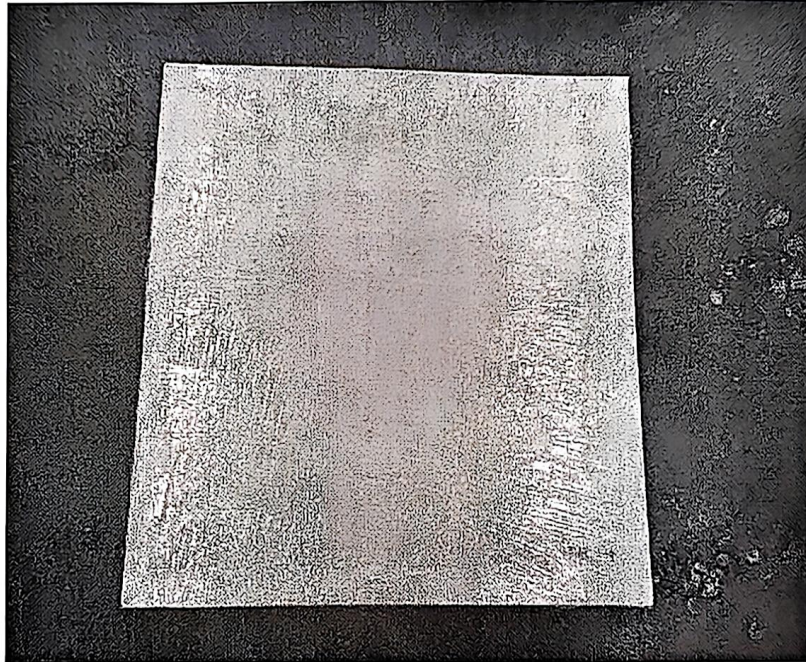


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### APPENDIX: SAMPLE RECEIVED PHOTO

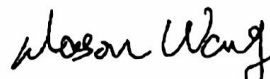


### REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

  
Name: Sun Sun  
Title: Approver

  
  
Name: Daniel Zhang  
Title: Reviewer

  
Name: Mason Wang  
Title: Project Engineer

### Revision:

NO.	DATE	CHANGES	AUTHOR	REVIEWER
170608010SHF-BP-12	2017/8/25	First issue	Mason Wang	Daniel Zhang

