TEST REPORT

No. : GZIN2104021062MR
Date : Apr 23, 2021

scan to see the report
GZIN2104021062MR

CUSTOMER NAME: GUANGDONG GANGRONG MEDICAL TECHNOLOGY CO., LTD
ADDRESS: FLOOR 2, BLOCK 13, BUILDING 2, NO.68, ZHENXING ROAD, DABU VILLAGE, SANXIANG TOWN, ZHONGSHAN CITY

Sample Name	:	PARTICLE FILTERING HALF MASK
Item No.	:	GR200
Manufacturer	:	GUANGDONG GANGRONG MEDICAL TECHNOLOGY CO., LTD
Buyer	:	KAELIS WORLD S.L.
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Other Information	:	IST LAYER NON-WOVEN FABRIC 2ND AND 3RD LAYER MELT-BLOWN FABRIC 4TH LAYER HOT AIR COTTON 5TH LAYER NON-WOVEN FABRIC

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

SGS Ref. No.	:	SDHL2104006315OT
Date of Receipt	:	Apr 21, 2021
Testing Start Date	:	Apr 21, 2021
Testing End Date	:	Apr 23, 2021
Test result(s)	:	For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical Services Co., Ltd. GZ Branch Testing Center

Kelly Lee
Authorized signatory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075188 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编:510663 t (86-20) 82155555 f (86-20) 82075188 e sgs.china@sgs.com

TEST REPORT

No. : GZIN2104021062MR
Date : Apr 23, 2021

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Graphene Identification	SGS in house method	The characteristic structure and elemental composition of graphene were not detected	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo:

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

TEST REPORT

No. : GZIN2104021062MR
Date : Apr 23, 2021

Test Item: Graphene Identification
Sample Description: Facemask
Test Method: SGS in house method
Test Result:

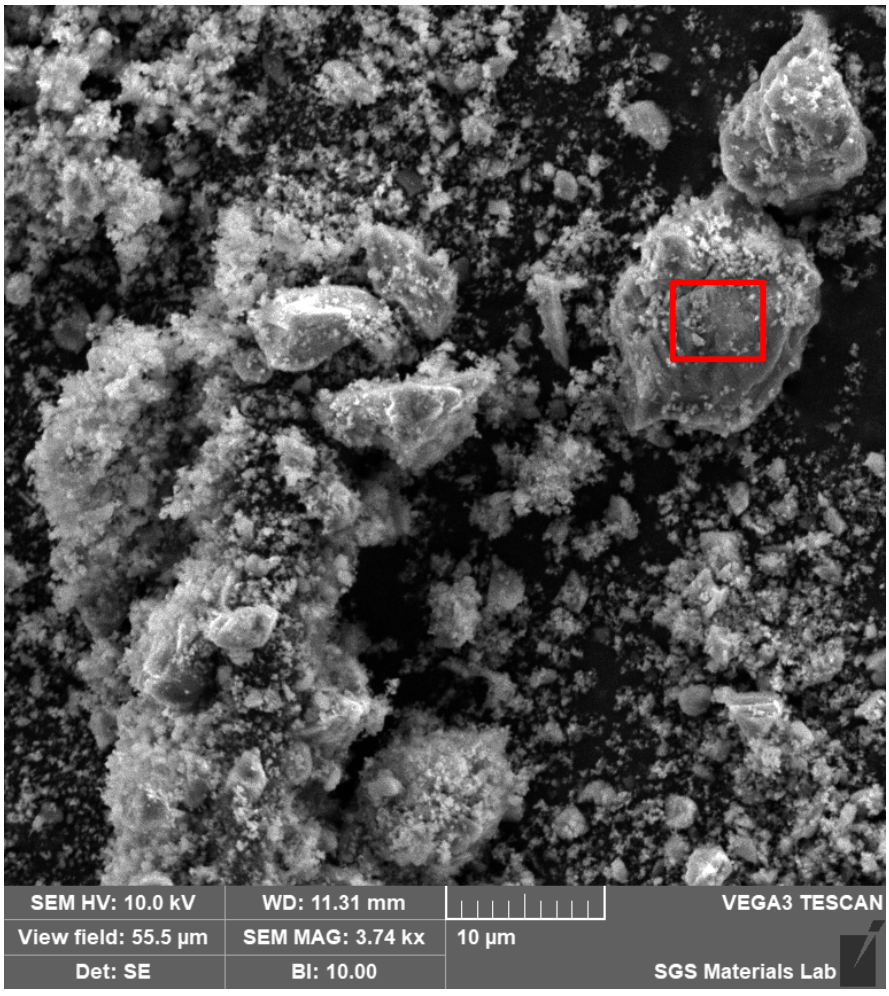

Fig.1 SEM image of the calcination ash of sample (under nitrogen protection)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

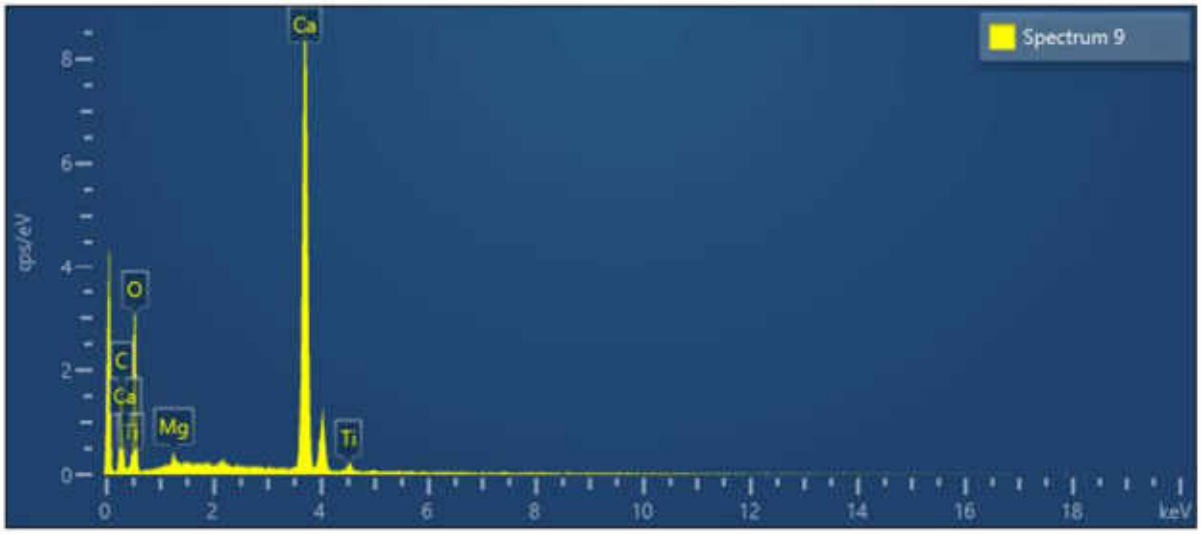

Fig.2 EDS spectra of the red rectangle area shown in fig.1

The elemental composition of the red rectangle area shown in fig.1

Element	Line Type	Weight %	Weight % Sigma	Atomic %
C	K series	14.89	0.67	23.89
O	K series	48.46	0.91	58.37
Ca	K series	35.1	0.66	16.87
Ti	K series	0.93	0.14	0.38
Mg	K series	0.62	0.13	0.49
Total		100		100

Conclusion:

As per test specified above, the calcination ash of sample (under nitrogen protection) showed a granular morphology, and its elemental composition includes carbon, oxygen and calcium. The characteristic structure and elemental composition of graphene were not found.

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

TEST REPORT

Note:

1. According to the related description in ISO/TS 80004-13:2017 and GB/T 30544.13-2018, the graphene layers can be generally referred to the 2D materials consisting of honeycomb-like carbon sheets with a stacking number less than ten.
2. Effected by the particle distribution, processing conditions and stocking conditions, graphene layers might aggregate into graphite flakes with a stacking number more than ten. The poor-reduced and poor-exfoliated reduced oxidized graphene oxide (rGO) might not exhibit the characteristic structure and elemental composition of graphene.

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
SEM/EDS	VEGA3 (SEM)/ XMX1010 (EDS)	GZMR-PL-E309	2020-05-27	2021-05-26

Appendix information: The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc., and just for internal reference.

******** End of report********

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center
198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075188 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编:510663 t (86-20) 82155555 f (86-20) 82075188 e sgs.china@sgs.com

港荣医疗
GANGRONG MEDICAL

Graphene Free Declaration

Manufacturer: Guangdong GangRong Medical Technology Co., Ltd
Address: Floor 2, Block 13, Building 2, No. 68, Zhenxing Road, Dabu village, Sanxiang Town, Zhongshan City

Declares that the materials which are used on the PPE described hereafter are free of graphene.

Product Name	**Particle filtering half mask**
Model	GR200
Standard	EN 149:2001 + Al:2009
Classification	FFP2 NR

Signature: John Su

Position: Legal Representative

Date: 2021-4-15