

Mascarilla FFP2 NR



TEST REPORT

scan to see the report



GZIN2104020576PS

No. : GZIN2104020576PS
Date : Apr 27, 2021
Page: 1 of 5

CUSTOMER NAME: CHANGZHOU RUIDA MEDICAL TECHNOLOGY CO., LTD.
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Sample Name : FFP2 MASK CAD-01

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. : GZIN2104020519PC
Date of Receipt : Apr 19, 2021
Testing Start Date : Apr 19, 2021
Testing End Date : Apr 27, 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



Quincey lee
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Gangzhou Branch Inspection & Testing Laboratory

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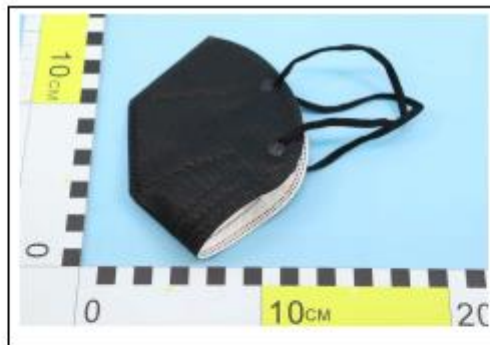
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Summary of Results:

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:



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

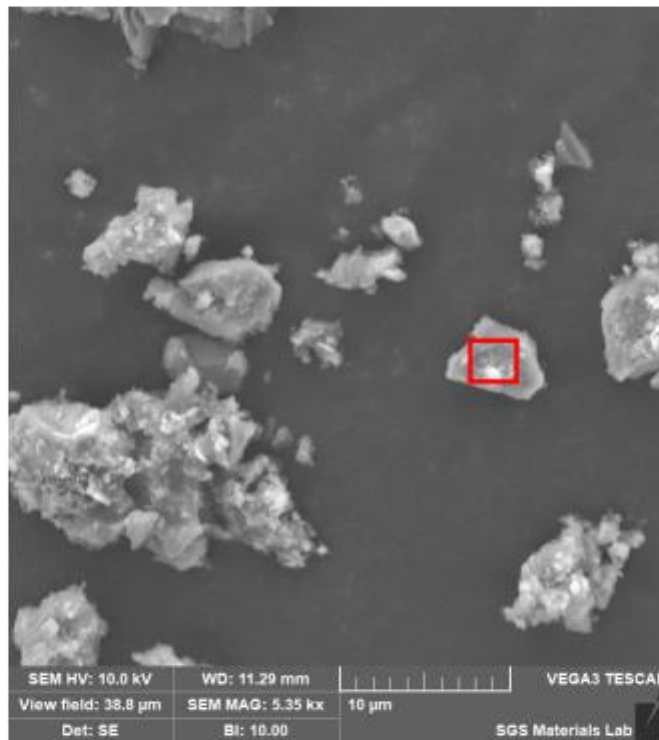


Fig.1 SEM image of the calcination ash of sample (under nitrogen protection)



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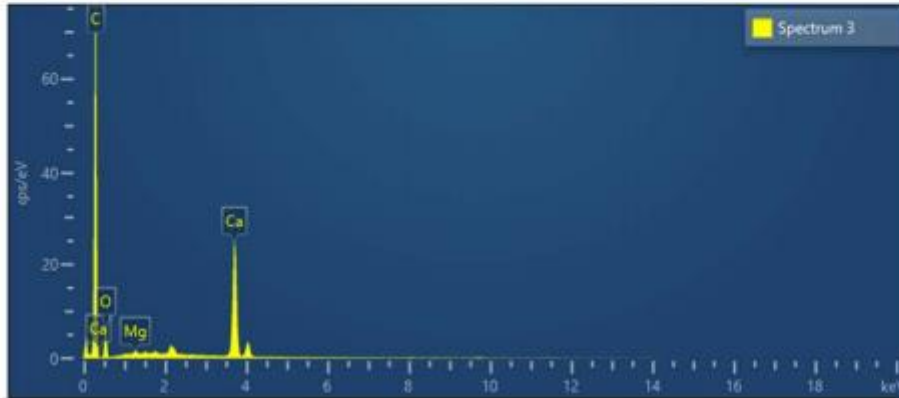


Fig.2 EDS spectra of the red rectangle area shown in fig.1

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

Element	Line Type	Weight %	Weight % Sigma	Atomic %
C	K series	65.8	0.28	77.85
O	K series	18.67	0.31	16.58
Ca	K series	15.28	0.12	5.42
Mg	K series	0.25	0.03	0.15
Total		100		100

Conclusion:

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



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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*****



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