

## Test Report

No. SHAEC2125951403

Date: 14 Dec 2021

Page 1 of 6

JIANGSU WANYUAN NEW MATERIALS CO.,LTD.

XINGYEROAD,SHANGDANG TOWN,DANTU DISTRICT,ZHENJIANG,JIANGSU,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Bonded heat sealing aluminum foil

SGS Job No. : SP21-036927 - SH  
Date of Sample Received : 29 Nov 2021  
Testing Period : 29 Nov 2021 - 14 Dec 2021  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Sheng

Sue Sheng  
Approved Signatory

scan to see the report



881A228B



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-Documents.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.

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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center - Client Responsibility

3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com.cn  
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-259514.001	Silvery metal

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### Per-and polyfluoroalkyl substances (PFASs)

Test Method : With reference to CEN/TS 15968:2010 and SGS in house method(SHTC-CHEM-SOP-775-T) , analysis was performed by LC-MS or LC-MS-MS and GC-MS

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorobutyric acid (PFBA)	375-22-4	mg/kg	0.01	ND
Perfluoropentanoic acid (PFPA)	2706-90-3	mg/kg	0.01	ND
Perfluorohexanoic acid (PFHxA)	307-24-4	mg/kg	0.01	ND
7H-Dodecafluoroheptanoic acid (HPFHpA)	1546-95-8	mg/kg	0.01	ND
Perfluorobutanesulfonic acid (PFBS)	375-73-5	mg/kg	0.01	ND
Perfluorobutanesulfonate K-salt (PFBS-K)**	29420-49-3	mg/kg	0.01	ND
Perfluoroheptanoic acid (PFHpA)	375-85-9	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (H <sub>2</sub> PFOS 6:2)	27619-97-2	mg/kg	0.01	ND
Sodium perfluorooctanoate (PFOA-Na)**	335-95-5	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	mg/kg	0.01	ND
Potassium perfluorooctanoate (PFOA-K)**	2395-00-8	mg/kg	0.01	ND
Silver perfluorooctanoate (PFOA-Ag)**	335-93-3	mg/kg	0.01	ND
Perfluorooctanoyl fluoride (PFOA-F)**	335-66-0	mg/kg	0.01	ND
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H <sub>2</sub> PFDA)	882489-14-7	mg/kg	0.01	ND
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	mg/kg	0.01	ND
Perfluorohexanesulfonate NA-salt (PFHxS-Na)**	82382-12-5	mg/kg	0.01	ND
Perfluorohexanesulfonate K-salt (PFHxS-K)**	3871-99-6	mg/kg	0.01	ND



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-Documents.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.

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](mailto:CN.Doccheck@sgs.com)  
 13<sup>th</sup> Building, No.889 Yishan Road Xuhui District, Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com.cn  
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

## Test Report

No. SHAEC2125951403

Date: 14 Dec 2021

Page 3 of 6

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorononanoic acid (PFNA)	375-95-1	mg/kg	0.01	ND
Perfluorononanoate Na-Salt (PFNA-Na)**	21049-39-8	mg/kg	0.01	ND
Perfluorononanoate ammonium salt (APFN)**	4149-60-4	mg/kg	0.01	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	ND
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	mg/kg	0.01	ND
Sodium pentadecafluoroheptyl sulfinat (PFHpS-Na)**	68555-66-8	mg/kg	0.01	ND
Perfluorodecanoic acid (PFDA)	335-76-2	mg/kg	0.01	ND
Perfluorodecanoate Na-salt (PFDA -Na)**	3830-45-3	mg/kg	0.01	ND
Perfluorodecanoate ammonium salt (APFDA) **	3108-42-7	mg/kg	0.01	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUa)	34598-33-9	mg/kg	0.01	ND
Perfluorooctane sulfonates (PFOS)	1763-23-1	mg/kg	0.01	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
Perfluorooctane Sulfonyl fluoride (POSF)**	307-35-7	mg/kg	0.01	ND
Potassium Perfluorooctanesulfonate (PFOS-K)**	2795-39-3	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )**	29081-56-9	mg/kg	0.01	ND
N-decyl-N,N-dimethyldecyl-1-aminium	251099-16-8	mg/kg	0.01	ND
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)**				
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )**	70225-14-8	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, lithium salt(PFOS-Li)**	29457-72-5	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )**	56773-42-3	mg/kg	0.01	ND
Perfluoroundecanoic Acid (PFUdA)	2058-94-8	mg/kg	0.01	ND
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	0.01	ND
Perfluorodecane sulfonic acid (PFDS)	335-77-3/ 126105-34-8	mg/kg	0.01	ND
Perfluorodecanesulfonate Na-salt (PFDS-Na) **	2806-15-7	mg/kg	0.01	ND
Perfluorodecanesulfonate K-salt (PFDS-K)**	2806-16-8	mg/kg	0.01	ND
Perfluoroaliphatic Dean-sulfonate salt of NH <sub>4</sub> (PFDS-NH <sub>4</sub> )**	67906-42-7	mg/kg	0.01	ND



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-Documents.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.

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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC (Shanghai) Technical Services (Shanghai) Co., Ltd.  
Testing Center - Client Responsibility

3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679  
t HL (86-21) 61402594 f HL (86-21) 61156899

[www.sgs.com](http://www.sgs.com)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Test Report

No. SHAEC2125951403

Date: 14 Dec 2021

Page 4 of 6

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorotridecanoic Acid (PFTrA)	72629-94-8	mg/kg	0.01	ND
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecanesulphonic acid (8:2 FTS)	39108-34-4	mg/kg	0.01	ND
2H,2H-Perfluorodecanoic acid	27854-31-5	mg/kg	0.01	ND
Perfluorobutansulfonyl fluoride**	375-72-4	mg/kg	0.01	ND
N,N,N,-triethylethanaminium	25628-08-4	mg/kg	0.01	ND
1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )**				
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.01	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	0.01	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.01	ND
Sum of PFOA & its salts and PFOA related substances		mg/kg	-	ND

Notes :

\*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario.



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-Documents.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.

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](mailto:CN.Doccheck@sgs.com)

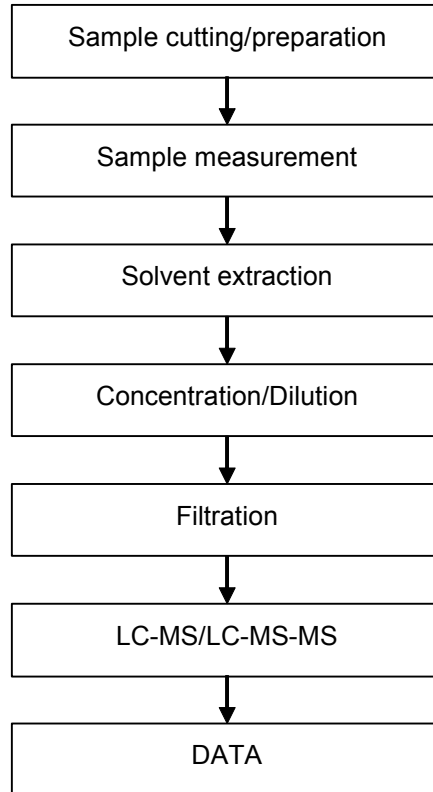
SGS-CSTC (Shanghai) Co., Ltd.  
Testing Center - China

3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com  
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

## ATTACHMENTS

### PFASs/ PFOS/PFOA Testing Flow Chart



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-Documents.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.

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](mailto:CN.Doccheck@sgs.com)

Sample photo:



SGS authenticate the photo on original report only

\*\*\* 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-Documents.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.

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](mailto:CN.Doccheck@sgs.com)