

检测报告

编号: SHAEC26014264204

日期: 2026 年 05 月 26 日

第 1 页, 共 8 页

客户名称: 江苏捷捷微电子股份有限公司
客户地址: 江苏省启东市经济开发区钱塘江路 3000 号

样品名称: TO-220A
料号: 11201508000035
客户参考信息: 见附件
买家: 美的
以上样品及信息由客户提供。

SGS 工作编号: SHP26-017926
样品接收时间: 2026 年 05 月 20 日
检测周期: 2026 年 05 月 20 日 ~ 2026 年 05 月 26 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
多氯三联苯(PCTs)	符合
阻燃剂	符合
欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2016/1005 第 6 条-石棉	符合
欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物	符合
全氟和多氟烷基化合物 (PFAS) 含量的总氟筛选检测	符合

通标标准技术服务(上海)有限公司
授权签名

倪俊

Tom Ni 倪俊
批准签署人

Scan to see the report



D3503167



SGS-CSI Standards Technical Services (Shanghai) Co., Ltd.
Chemical Laboratory

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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

3rd 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 www.sgs.com.cn
t HL (86-21) 61402594 sgs.china@sgs.com

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA26-0142642-0001.C001	黑色固体

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

多氯三联苯(PCTs)

检测方法: 参考 US EPA 3550C:2007, 采用 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
Aroclor 5432	禁用	mg/kg	5	ND
Aroclor 5442	禁用	mg/kg	5	ND
Aroclor 5460	禁用	mg/kg	5	ND
结论				符合

备注:

- (1) 最大允许限值来源于客户要求。

阻燃剂

检测方法: 参考内部方法, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
磷酸三(1,3-二氯-2-丙基)酯(TDCPP/TDCP)	13674-87-8	1000	mg/kg	5	ND
磷酸三(2-氯乙基)酯(TCEP)	115-96-8	1000	mg/kg	5	ND
磷酸三(1-氯-2-丙基)酯(TCPP)	13674-84-5	1000	mg/kg	10	ND
结论					符合

备注:

- (1) 最大允许限值来源于客户要求。

欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2016/1005 第 6 条-石棉

检测方法: 参考 NIOSH 9000:2015 和 ISO 22262-1:2012, 采用 X 射线衍射仪(XRD)和偏光显微镜(PLM)进行定性分析。



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Chemical Laboratories

3rd 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 www.sgsgroup.com.cn
t HL (86-21) 61402594 sgs.china@sgs.com

检测报告

编号: SHAEC26014264204

日期: 2026年05月26日

第3页, 共8页

检测项目	CAS No.	限值	单位	MDL	A1
阳起石	77536-66-4	禁用	%(m/m)	0.1	阴性
铁石棉	12172-73-5	禁用	%(m/m)	0.1	阴性
直闪石	77536-67-5	禁用	%(m/m)	0.1	阴性
温石棉	12001-29-5 /132207-32-0	禁用	%(m/m)	0.1	阴性
青石棉	12001-28-4	禁用	%(m/m)	0.1	阴性
透闪石	77536-68-6	禁用	%(m/m)	0.1	阴性
结论	符合				

备注:

(1) 阴性=未检出石棉, 阳性=检出石棉

欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物

检测方法: 参考 ISO 17353:2004, 采用 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
按 TBT (三丁基锡) 换算回锡的含量	-	%	0.01	ND
按 TPhT (三苯基锡) 换算回锡的含量	-	%	0.01	ND
按 TCyT (三环己基锡) 换算回锡的含量	-	%	0.01	ND
按 TOT (三辛基锡) 换算回锡的含量	-	%	0.01	ND
按 TPT (三丙基锡) 换算回锡的含量	-	%	0.01	ND
按 TMT (三甲基锡) 换算回锡的含量	-	%	0.01	ND
三代有机锡化合物换算锡含量	0.1	%	-	ND
按 DBT (二丁基锡) 换算回锡的含量	0.1	%	0.01	ND
按 DOT (二辛基锡) 换算回锡的含量	0.1	%	0.01	ND
结论	符合			

全氟和多氟烷基化合物 (PFAS) 含量的总氟筛选检测

检测方法: 参考 IEC 62321-3-2:2020 方法。

检测项目	限值	单位	MDL	A1
全氟和多氟烷基化合物(以氟计)	20	mg/kg	20	ND
结论	符合			

备注:

- (1) 最大允许限值来源于客户。
- (2) 检测结果可能包含无机氟化物和/或有机氟化物。总氟的结果可能不是来自于 PFAS。建议检测单个 PFAS 以确定是否符合相应要求。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。
 除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。
 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



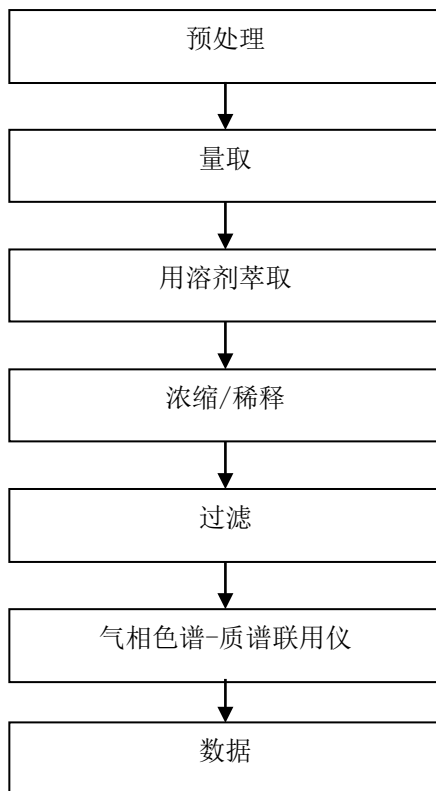
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
 Chemical Laboratories

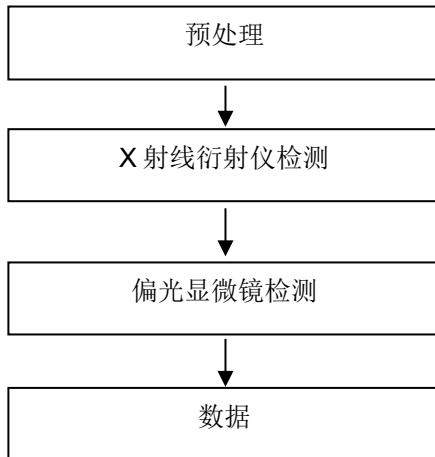
3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 www.sgsgroup.com.cn
 t HL (86-21) 61402594 sgs.china@sgs.com

PCT 检测流程图

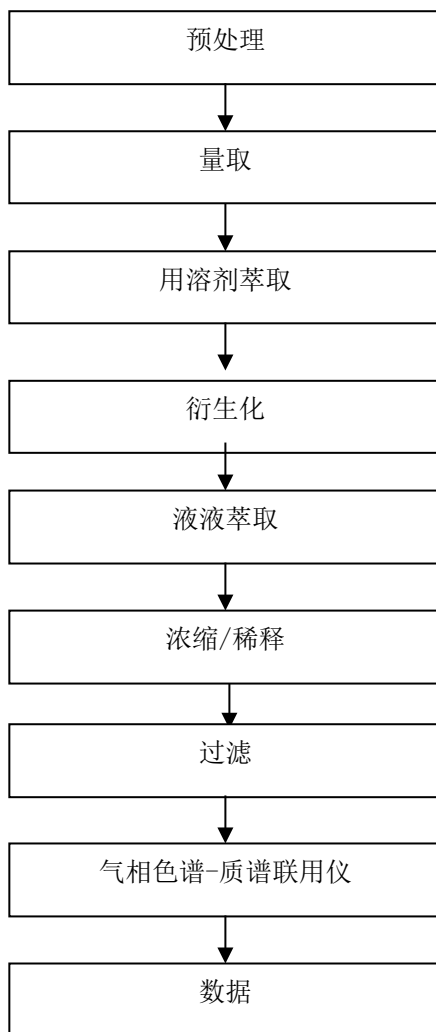


Asbestos 检测流程图



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

有机锡检测流程图



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

SGS Standards Technical Services (Shanghai) Co., Ltd.
Chemical Laboratories

3rd 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 www.sgsgroup.com.cn
t HL (86-21) 61402594 sgs.china@sgs.com

检测报告

编号: SHAEC26014264204

日期: 2026年05月26日

第7页, 共8页

附件:

402、603、2510、62mm、ABS、DBS、DFN0603-2L、DFN1006-2L、DFN1006-3L、DFN10x15-5L、DFN10x15-5L-XX、DFN1610-2L、DFN1610-6L、DFN2010-5L、DFN2010-8L、DFN2020-2L、DFN2020-3L、DFN2020-6L、DFN2020-6L-XX、DFN2020-8L、DFN2510-10L、DFN2626-10L、DFN2x2-3L、DFN2x2-6L、DFN2x2-6L-D、DFN2x2-6L-XX、DFN3.0x3.0-8L、DFN3.0x3.0-8L-SD (Type、B)、DFN3.3x3.3-8L-XX、DFN3.0x3.0-8L-XX、DFN3.3x3.3-8L、DFN3.3x3.3-8L (Type、B)、DFN3.3x3.3-8L-XX、DFN3020-10L、DFN3030-8L、DFN3030-8L-XX、DFN3030-12L、DFN3333-2L、DFN3333-8L、DFN3810-9L、DFN3x3-8L-XX、DFN4120-10L、DFN5060-8L、DFN5060-8L-XX、DFN5515-18L、DFN5x6-8L、DFN5x6-8L(Dual)、DFN5x6-8L-XX、DFN8080-2L、DFN8080-4L、DFN8x8-2L、DFN8x8-4L、DFN8x8-4L-XX、DIP-4、DIP-5、DO-15、DO-218AB、DO-27、DO-41、DriveJM-34、DriveJM-62、DriveJM-DC、DriveJM-E1、DriveJM-E2、DriveJM-EC、DriveJM-ED、DriveJM-H1、DriveJM-H2、EasyPack1B、EconoDual、ESOP-8、F3、FBP-02C-A、GBJ、GBL、GBU、IGBT-34mm、ITO-247、ITO-247-XX、KBL、KBP、LFPK5x6-8L、LSOP-4、MBF、MBS、P6、PDFN3.3x3.3-8L、PDFN3.3x3.3-8L-XX、PDFN3x3-8L、PDFN3x3-8L-XX、PDFN5x6-8L、PDFN5x6-8L-XX、PDFN5x7-10L-XX、PowerJE10x12、PowerJE5x6、PowerJE7x8、PowerJE8x8、PPTC、R6、SGBJ、SGD0201、SGD0402、SMA、SMAF、SMAW、SMB、SMBF、SMC、SMC-3、SMD-3225、SMD-4032、SMD-5、SMT、SMT-4、SMTF、SMTJ、SMTO-218Tab、SOD-123、SOD-123FL、SOD-123FLT、SOD-323、SOD-323F、SOD-323FL、SOD-523、SOD-723、SOD-923、SOP-10、SOP-16、SOP-4、SOP-5、SOP-7、SOP-8、SOP-8-XX、SOT-143、SOT-143-XX、SOT-223、SOT-223-XX、SOT-227、SOT-227-XX、SOT-23、SOT-23-XX、SOT-323、SOT-323-XX、SOT-353、SOT-353-XX、SOT-363、SOT-363-XX、SOT-523、SOT-523-XX、SOT-563、SOT-563-XX、SOT-723、SOT-723-XX、SOT-82、SOT-89、SOT-89R-XX、SOT-89-XX、SSOP-16、SSOP-4、STOLL7x8-5L、T2B、TO-126、TO-202、TO-202-XX、TO-220A、TO-220A-2D-XX、TO-220AB、TO-220A-XX、TO-220B、TO-220B-XX、TO-220C、TO-220C-XX、TO-220F、TO-220FA、TO-220FA-XX、TO-220FP、TO-220FP-XX、TO-220HF、TO-220H-XX、TO-220MF-3L、TO-220-XX、TO-247、TO-247-XX、TO-247i-XX、TO-247iL-XX、TO-247iPS-XX、TO-247J、TO-247J-XX、TO-247plus、TO-247S、TO-247S-XX、TO-251、TO-251L-XX、TO-251S、TO-251-XX、TO-252、TO-252-XX、TO-262、TO-262-XX、TO-263、TO-263-XX、TO-277B、TO-3P、TO-3P-3L、TO-3PF-3L、TO-3PN-3L、TO-92、TO-92CR、TO-92KR、TO-92KRF、TO-92UR、TO-92-XX、TOLL9.9x10.38-8L、TOLT、TSSOP-8、TSSOP-8、WSOP-6



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Chemical Laboratories

3rd 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 www.sgsgroup.com.cn
t HL (86-21) 61402594 sgs.china@sgs.com

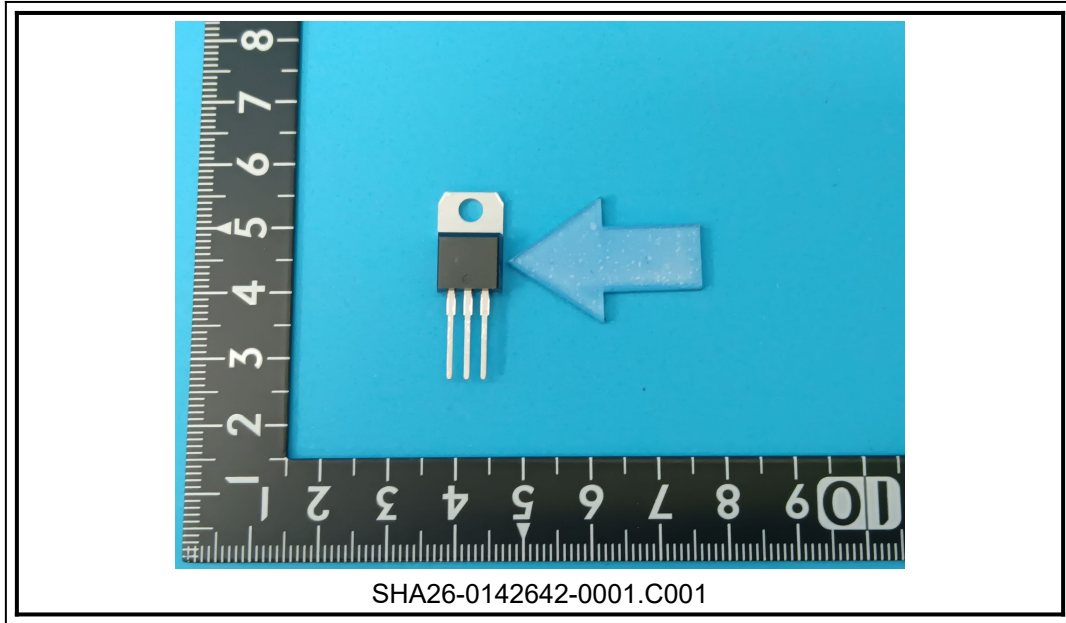
检测报告

编号: SHAEC26014264204

日期: 2026 年 05 月 26 日

第 8 页, 共 8 页

样品照片:



此照片仅限于随 SGS 正本报告使用

报告结束



SGS-Standard Technical Services (Shanghai) Co., Ltd.
Chemical Laboratories

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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

3rd 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 www.sgsgroup.com.cn
t HL (86-21) 61402594 sgs.china@sgs.com