测试报告

No. CKGEC2100610114　　日期: 2021年08月25日　　第1页,共9页

四川遂宁市利普芯微电子有限公司
四川省遂宁市船山区（经开区）飞龙路66号

以下测试之样品是由申请者所提供及确认：半导体器件

SGS工作编号：	22013646 - CQ
型号：	QSOP24
客户参考信息：	SOP16/HSOL8/TSSOP20/TSSOP8
样品接收日期：	2021年08月17日
测试周期：	2021年08月17日 - 2021年08月24日
测试要求：	根据客户要求测试
测试方法：	请参见下一页
测试结果：	请参见下一页

通标标准技术服务有限公司重庆分公司
授权签名

scan to see the report

CKGEC2100610114

Mary Zou邹昌梅
批准签署人

SGS-CSTC Standards Technical Services Co., Ltd. Chongqing Branch 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 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 .
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

Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120　t (86-23) 6311 0882　www.sgsgroup.com.cn
中国・重庆・渝北区翠桃路凉井工业园　邮编: 401120　t (86-23) 6311 0882　sgs.china@sgs.com

测试结果 :

测试样品描述 :

样品编号	SGS样品ID	描述
SN1	CKG21-006101.007	被称作"半导体器件"（混测）

备注 :

(1) 1 mg/kg = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

元素分析,六价铬,阻燃剂,邻苯二甲酸酯

测试方法 : 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES , UV-Vis 和 GC-MS 进行分析.

测试项目	单位	MDL	*007*
镉 (Cd)	mg/kg	2	ND
铅 (Pb)	mg/kg	2	11
汞 (Hg)	mg/kg	2	ND
六价铬(Cr(VI))	mg/kg	8	ND
多溴联苯之和(PBBs)	mg/kg	-	ND
一溴联苯	mg/kg	5	ND
二溴联苯	mg/kg	5	ND
三溴联苯	mg/kg	5	ND
四溴联苯	mg/kg	5	ND
五溴联苯	mg/kg	5	ND
六溴联苯	mg/kg	5	ND
七溴联苯	mg/kg	5	ND
八溴联苯	mg/kg	5	ND
九溴联苯	mg/kg	5	ND
十溴联苯	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	mg/kg	-	ND
一溴二苯醚	mg/kg	5	ND
二溴二苯醚	mg/kg	5	ND
三溴二苯醚	mg/kg	5	ND
四溴二苯醚	mg/kg	5	ND
五溴二苯醚	mg/kg	5	ND

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Chongqing Branch 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 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.
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
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国 · 重庆 · 渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

测试项目	单位	MDL	007
六溴二苯醚	mg/kg	5	ND
七溴二苯醚	mg/kg	5	ND
八溴二苯醚	mg/kg	5	ND
九溴二苯醚	mg/kg	5	ND
十溴二苯醚	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	mg/kg	50	ND
邻苯二甲酸二(2-乙基已基)酯(DEHP)	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	mg/kg	50	ND

备注：

(1) IEC 62321 系列等同于 EN 62321 系列
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) 2021年7月22号开始，DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

卤素

测试方法： 参考EN 14582:2016，用IC分析。

测试项目	单位	MDL	007
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

备注：样品基于申请人要求为混合测试。报告中的混合测试结果不代表其中个别单一材质的含量，该测试数据仅供参考。

除非另有说明，此报告结果仅对测试的样品负责。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。

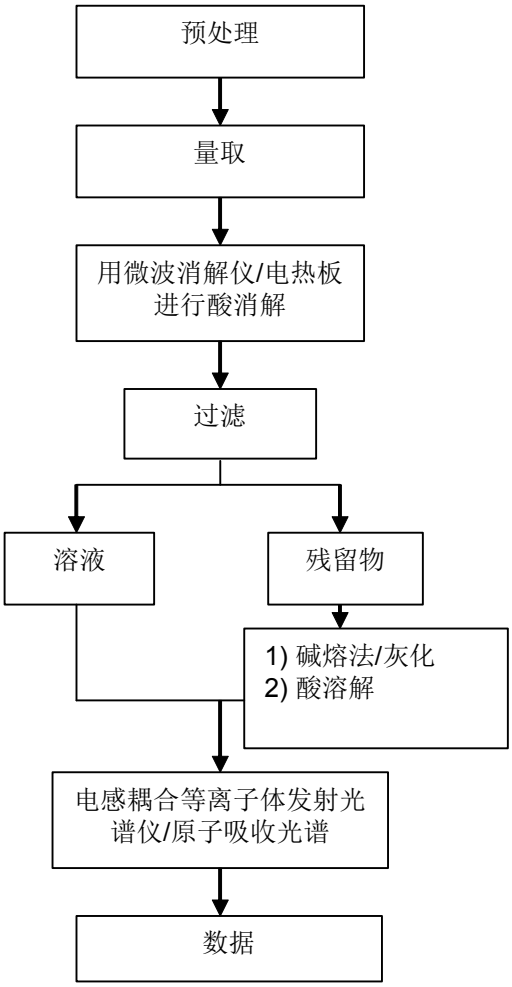
SGS-CSTC Standards Technical Services Co., Ltd. Chongqing Branch Chemical Laboratory
检验检测专用章 Inspection & Testing Services

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.
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
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国・重庆・渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

附件

元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解

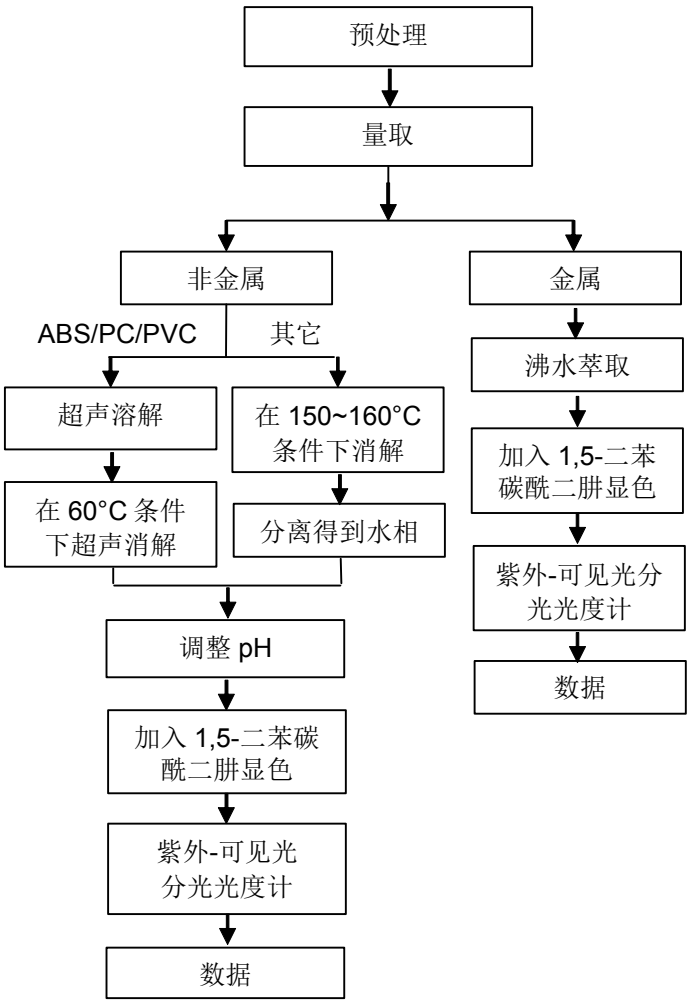


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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.
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. Chongqing Branch Chemical Laboratory
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国·重庆·渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com

附件

六价铬测试流程图

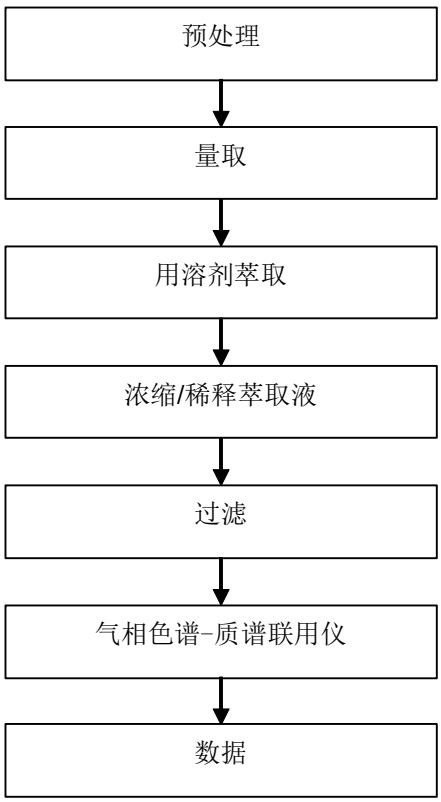


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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.
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. Chongqing Branch Chemical Laboratory
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国 · 重庆 · 渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com

附件

PBBs/PBDEs 测试流程图

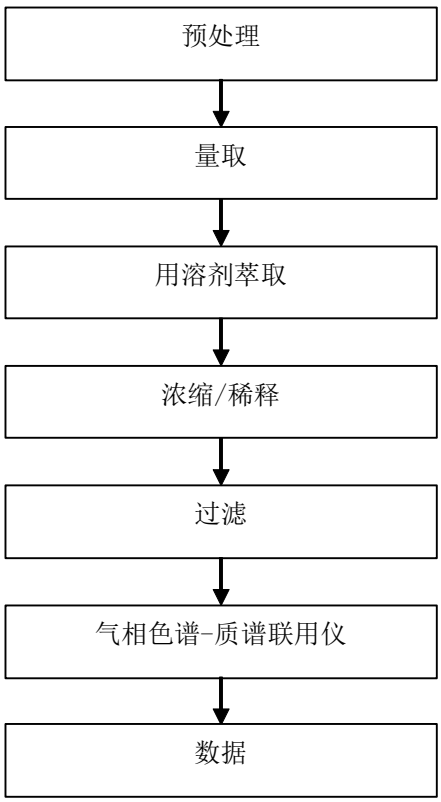


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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 .
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. Chongqing Branch Chemical Laboratory
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国 · 重庆 · 渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com

附件

Phthalates 测试流程图

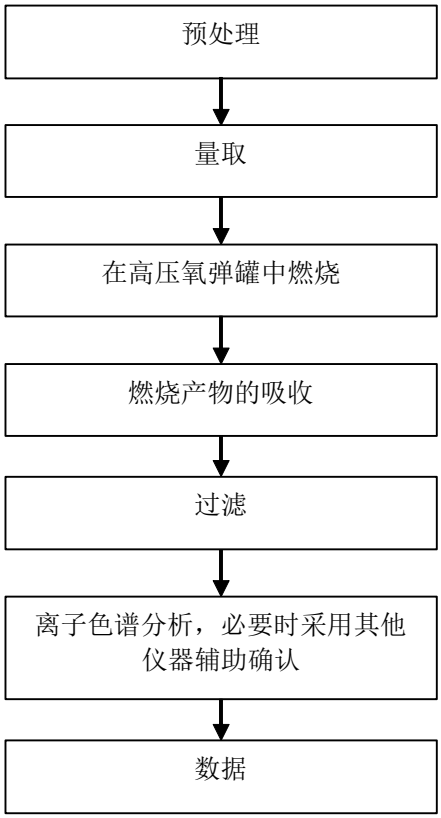


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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 .
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. Chongqing Branch Chemical Laboratory
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国·重庆·渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com

附件

卤素 (氧弹法)测试流程图

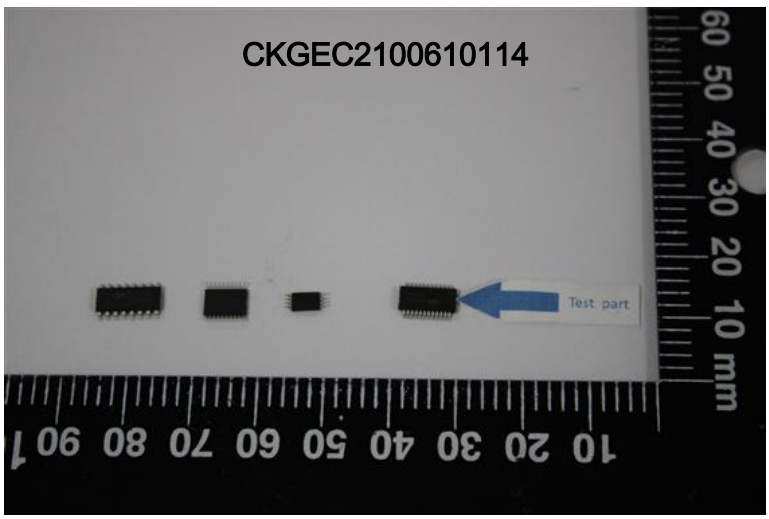


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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 .
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. Chongqing Branch Chemical Laboratory
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国 · 重庆 · 渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

样品照片:



CKG21-006101.007

此照片仅限于随SGS正本报告使用

*** 报告完 ***

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 .
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. Chongqing Branch Chemical Laboratory
Liangjing Industrial Park, Cuitao Road, Yubei District, Chongqing, China 401120 t (86-23) 6311 0882 www.sgsgroup.com.cn
中国 · 重庆 · 渝北区翠桃路凉井工业园 邮编: 401120 t (86-23) 6311 0882 sgs.china@sgs.com

Member of the SGS Group (SGS SA)