

检测报告

编号：TAOEC24004739932

日期：2024年07月12日

第1页，共5页

客户名称：万华化学集团股份有限公司
客户地址：山东省烟台市开发区重庆大街59号

样品名称：WANSUPER®POE C4 产品
客户参考信息：65016、65056、65057、69057、69147
以上样品及信息由客户提供。

SGS 工作编号：QDP24-003055
样品接收时间：2024年07月03日
检测周期：2024年07月03日 ~ 2024年07月09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
有机锡化合物	见检测结果

通标标准技术服务（青岛）有限公司
授权签名

孙媛媛

Alice Sun
批准签署人

scan to see the report



4D50CC24



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.

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 (Shanghai) Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编：266101

t (86-532) 68999888 www.sgs.com.cn
t (86-532) 68999888 sgs.china@sgs.com

检测报告

编号: TAOEC24004739932

日期: 2024年07月12日

第2页, 共5页

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	TAO24-0047399-0001.C001	无色透明固体颗粒

备注:

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

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	单位	MDL	A1
二丁基锡(DBT)	mg/kg	0.02	ND
三丁基锡(TBT)	mg/kg	0.02	ND
单丁基锡(MBT)	mg/kg	0.02	ND
单辛基锡(MOT)	mg/kg	0.02	ND
四丁基锡(TTBT)	mg/kg	0.02	ND
四乙基锡(TeET)	mg/kg	0.02	ND
硼酸二正丁基锡(DBB) ◆	mg/kg	0.02	ND
单甲基锡(MT)	mg/kg	0.02	ND
二辛基锡(DOT)	mg/kg	0.02	ND
二丙基锡(DPT)	mg/kg	0.02	ND
三苯基锡(TPhT)	mg/kg	0.02	ND
三环己基锡(TCyHT)	mg/kg	0.02	ND
三甲基锡(TMT)	mg/kg	0.02	ND
三辛基锡(TOT)	mg/kg	0.02	ND
三丙基锡(TPT)	mg/kg	0.02	ND
二甲基氯化锡(DMT)	mg/kg	0.02	ND
单苯基锡(MPhT)	mg/kg	0.02	ND
二苯基锡(DPhT)	mg/kg	0.02	ND
单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)	mg/kg	0.02	ND
三丁基锡氧化物(TBTO)◆	mg/kg	0.02	ND
二氯化二丁基锡(DBTC)◆	mg/kg	0.02	ND
二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)◆	mg/kg	0.02	ND
二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物◆	mg/kg	0.02	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 <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.

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 Standard Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgs.com.cn
 t (86-532) 68999888 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



检测报告

编号: TAOEC24004739932

日期: 2024年07月12日

第3页, 共5页

检测项目	单位	MDL	A1
四辛基锡(TTOT)	mg/kg	0.02	ND

备注:

- (1) ◆ 三丁基锡氧化物(TBTO): 由三丁基锡(TBT)的最差含量换算得之
- ◆ 硼酸二正丁基锡(DBB)/ 二氯化二丁基锡(DBTC): 由二丁基锡(DBT)的最差含量换算得之
 - ◆ 二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE): 由二正辛基锡(DOT)的最差含量换算得之
 - ◆ 单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE): 由单辛基锡(MOT)的最差含量换算得之
 - ◆ 二正辛基-双(2-乙基己基巯基乙酸酯)锡与单辛基-三(2-乙基己基巯基乙酸酯)锡的反应物(DOTE 与 MOTE 反应物): 由二正辛基锡(DOT)和单辛基锡(MOT)的最差含量换算得之

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。

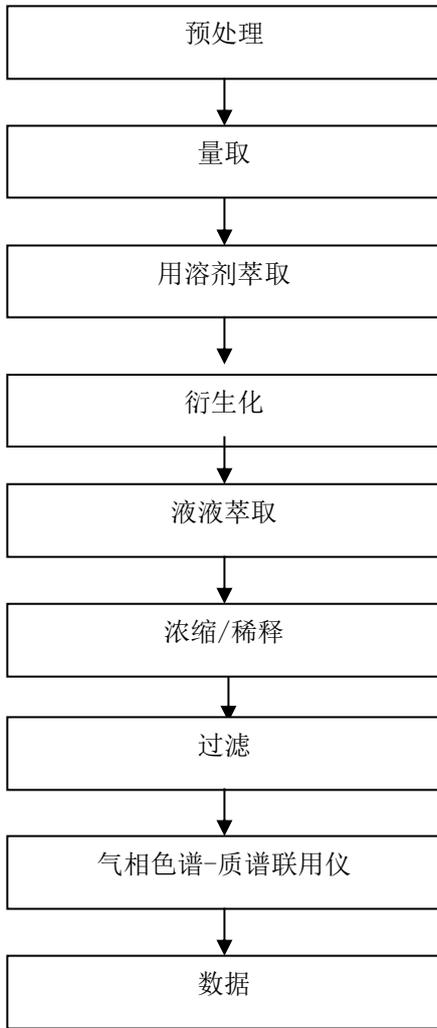


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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



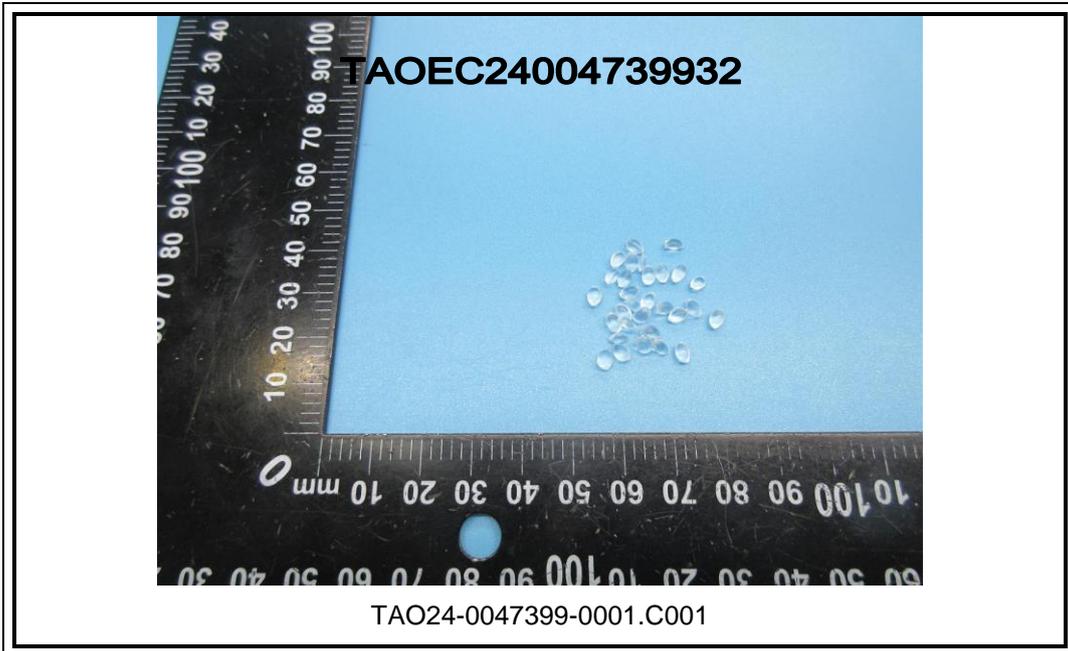
检测报告

编号: TAOEC24004739932

日期: 2024年07月12日

第5页, 共5页

样品照片:



此照片仅限于随 SGS 正本报告使用
报告结束

有限公司



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.

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 (Shanghai) Technical Services (Qingdao) Co., Ltd.

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

t (86-532) 68999888 www.sgsgroup.com.cn
t (86-532) 68999888 sgs.china@sgs.com