

## 检测报告

编号: CANEC23015829934

日期: 2023年12月12日

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客户名称: 中山市中益油墨涂料有限公司三角分公司  
客户地址: 广东省中山市三角镇福泽路13号

样品名称: UV 丝印光油+特殊编号油墨  
客户参考信息: UV,UVC,UVH,UVL,L-TH-PMS,L-TH,L-P,AUV,UVF,UVST,LED,LED (洒闪粉)  
UVH-  
0505D/1200/1210/1220/1230/1240/12010/12020/12021/12022/12023/12024/1  
2025/4007/4008/4009/4011/4012/4013/4014/4015/4016/4017/4018/4019/4020/  
110/110A/200/120B/120C/120D/120E/1301/1302/1303/1304/1305/1306/1307/1  
308/1309/1510/1520/1250/1530/1540/1550/1560/1570/1580/1590/310S/3005/  
3006/3007/3008/3009/4001/4002/4003/4005/4006/01042B/01042D/01047/140  
20/14040/14056/14048/14049E/14050/14051/14052/14053/14054/14055/1405  
6/14057/14134/14058/15022/15022A/15046B/15046C/15046D/15047B/15047  
C/15047D/15047/45047A/15046/15046A/2301/2302/2303/15048//400B/2300/2  
400/2500/2600/2700/2800/7200/7300/7400/7500/7600/14183E/3001/3002/300  
3/3004/1706B/14059B/15080/15081/15081C/15081D/15081E/15081F/15082/1  
5083/15084/15085/15085A/15085B/15085C/15086/15087/15088/15089/15090/  
15091/15092/15093/15096/15097/15098/15099/15061/15062/15063/15064/15  
065/15066/15067/15068/0505A-2/120E 哑光浆/15085A-  
1/180/181/182/183/190/191/192/哑膜光油、纸张光油、水晶光油、凸字光油、  
加粉光油、皱纹、哑膜皱纹、冰点、发泡、夜光油墨、金磨砂、银磨砂、珠光、  
折光、雪花、裂纹、桔纹、磨砂、岩石油墨、辊涂、覆膜水晶、冰花、皮纹、锤  
纹、覆膜雪花、哑光浆、稀释剂、增稠剂、耐黄变光油、光变油墨、温变油  
墨、贴花光油、手感油墨、UVH-1#、2#、3#稀释剂, 15081C-NC、UVC-稀释  
剂、UV-01 稀释剂、局部光油(哑光型、平光型)

以上样品及信息由客户提供。

SGS 工作编号: GZP23-021408  
样品接收时间: 2023年12月06日  
检测周期: 2023年12月06日 ~ 2023年12月12日  
检测要求: 根据客户要求检测  
检测方法: 见后续页。

通标标准技术服务有限公司广州分公司  
授权签名

李嘉欣

Jessie-JX Li 李嘉欣  
批准签署人

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SGS-CS Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Services Laboratory

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检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅, 汞, 镉, 六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯 (DIBP)	符合
EN 71-3:2019+A1:2021 - 特定元素迁移测试(针对第三类:可以刮取玩具材料)	见检测结果
欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2018/2005 第 51 条- 邻苯二甲酸酯	符合
欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2015/326 第 52 条- 邻苯二甲酸酯	符合

## 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	A9	CAN23-0158299-0001.C009	灰白色液体

### 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

**欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅, 汞, 镉, 六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)**

检测方法: 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。

检测项目	限值	单位	MDL	A9
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A9
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许限值引用自 RoHS 指令(EU) 2015/863。
- (2) IEC 62321 系列等同于 EN 62321 系列。
- (3) 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。

**EN 71-3:2019+A1:2021 - 特定元素迁移测试(针对第三类:可以刮取玩具材料)**

检测方法: 参考 EN 71-3:2019+A1:2021, 采用 ICP-OES, IC-UV 或 LC-ICP-MS 进行分析。

检测项目	限值	单位	MDL	A9
可溶性铝 (Al)	28130	mg/kg	50	ND
可溶性锑 (Sb)	560	mg/kg	10	ND
可溶性砷 (As)	47	mg/kg	10	ND
可溶性钡 (Ba)	18750	mg/kg	50	ND
可溶性硼 (B)	15000	mg/kg	50	ND
可溶性镉 (Cd)	17	mg/kg	5	ND
可溶性三价铬 (Cr III)	460	mg/kg	5	ND
可溶性六价铬 (CrVI)	0.053	mg/kg	0.025	ND
可溶性钴 (Co)	130	mg/kg	10	ND
可溶性铜 (Cu)	7700	mg/kg	50	ND
可溶性铅 (Pb)	23	mg/kg	5	ND
可溶性锰 (Mn)	15000	mg/kg	50	ND
可溶性汞 (Hg)	94	mg/kg	10	ND
可溶性镍 (Ni)	930	mg/kg	10	ND



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检测项目	限值	单位	MDL	A9
可溶性硒 (Se)	460	mg/kg	10	ND
可溶性锶 (Sr)	56000	mg/kg	50	ND
可溶性锡 (Sn)	180000	mg/kg	3	ND
可溶性锌 (Zn)	46000	mg/kg	50	ND
可溶性有机锡*	12	mg/kg	-	ND

**备注:**

(1) 根据 EN 71-3:2019+A1:2021 第 10.1.2 章节规定, Cr(III)结果由以下公式换算得到:

可溶性三价铬 = 可溶性总铬 - 可溶性六价铬

(2) \* 可溶性锡转化为可溶性有机锡后的含量没有超过 EN 71-3:2019+A1:2021 中相应限量, 根据 EN 71-3:2019+A1:2021 的要求, 不需要额外检测可溶性有机锡的含量。

**欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2018/2005 第 51 条- 邻苯二甲酸酯**

检测方法: 参考 EN 14372: 2004 的方法, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A9
邻苯二甲酸二丁酯 (DBP)	84-74-2	0.1	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	0.1	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	0.1	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	0.1	%	0.003	ND
合计 (DBP + BBP + DEHP+DIBP)	-	0.1	%	-	ND
<b>结论</b>					<b>符合</b>

**备注:**

DBP、BBP、DEHP、DIBP 参考信息: 欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2018/2005 第 51 条:

i) 不允许 DBP、BBP、DEHP、DIBP 单一质量浓度或质量浓度总和等于或高于 0.1%的可塑性物料用于玩具和儿童护理品。

ii) 当玩具和儿童护理品中的可塑性物料含 DBP、BBP、DEHP 单一质量浓度或质量浓度总和等于或高于 0.1% 时, 不得投放市场。另外, 当玩具和儿童护理品中的可塑性物料含 DIBP 单一质量浓度或 DBP、BBP、DEHP、DIBP 质量浓度总和等于或高于 0.1%时, 2020 年 7 月 7 日后不得投放市场。

iii) 当成品中的可塑性物料含 DBP、BBP、DEHP、DIBP 单一质量浓度或质量浓度总和等于或高于 0.1%时, 2020 年 7 月 7 日后不得投放市场。

详细信息请参见 Regulation (EU) 2018/2005。

**欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2015/326 第 52 条- 邻苯二甲酸酯**

检测方法: 参考 EN 14372: 2004 的方法, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A9
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	-	%	0.010	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	-	%	0.003	ND



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Guangzhou Branch, Technical Services CA, Laboratory

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日期: 2023 年 12 月 12 日

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检测项目	CAS No.	限值	单位	MDL	A9
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	-	%	0.010	ND
合计(DINP + DNOP + DIDP)	-	0.1	%	-	ND
<b>结论</b>					<b>符合</b>

**备注:**

DINP、DNOP、DIDP 参考信息: 欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及修正法案(EU) 2015/326 第 52 条:

- i) 不允许 DINP、DNOP、DIDP 质量浓度高于 0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品。
- ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含 DINP, DNOP, DIDP 质量浓度高于 0.1%时, 不得投放市场。

详细信息请参见 Regulation (EU) 2015/326。

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。

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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。

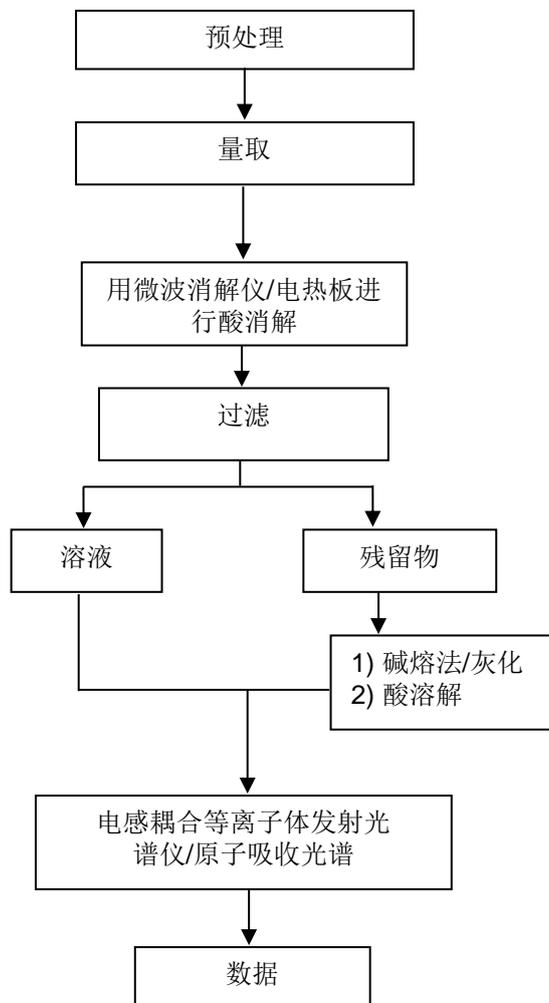


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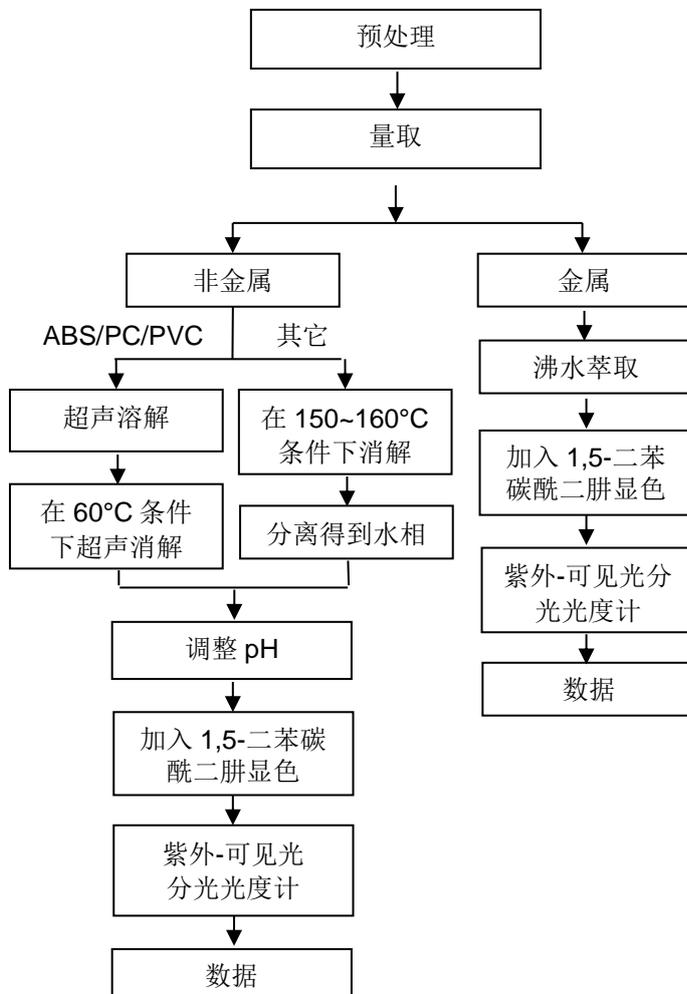
附件

### 元素检测流程图

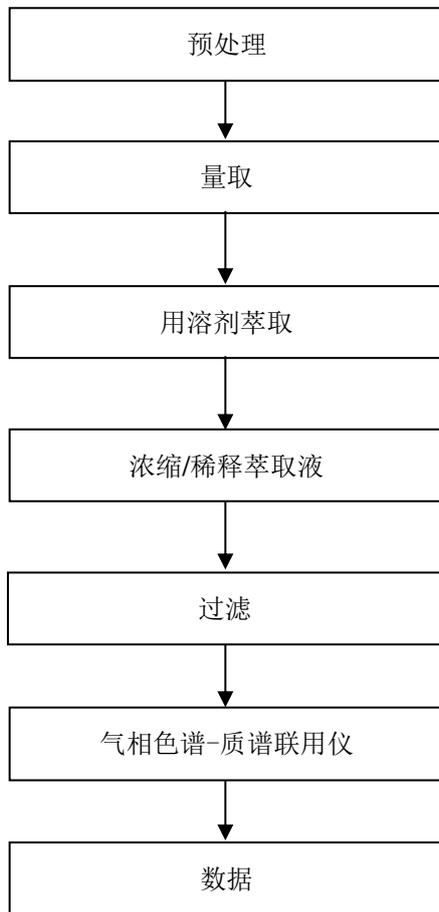
样品按照下述流程被完全消解



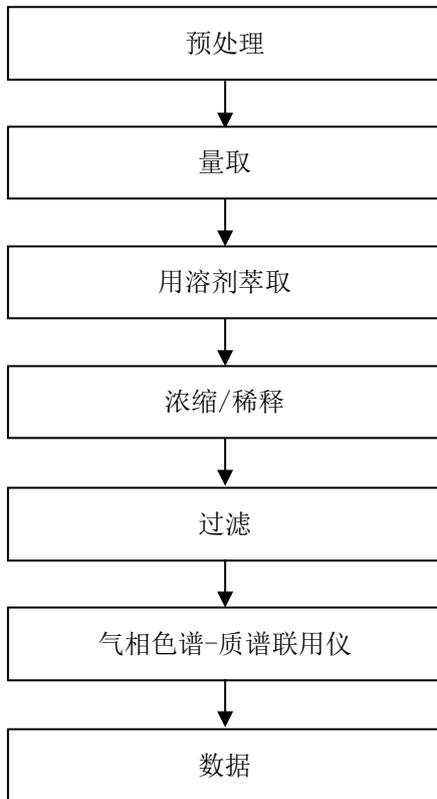
### 六价铬检测流程图



### PBBs/PBDEs 检测流程图



### Phthalates 检测流程图



## 检测报告

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