

检测报告

编号: CANEC2201952012

日期: 2022年02月18日 第10页,共19页

(SVHC)

附录

所有检测的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VII	81	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.050
VII	82	1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H, 3H,5H)-三酮(TGIC)	2451-62-9	0.050
VII	83	C.I.溶剂蓝4S	6786-83-0	0.050
VII	84	1,3,5-三-[(2S和2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H, 3H, 5H)-三酮(β -TGIC)	59653-74-6	0.050
VIII	85	二盐基邻苯二甲酸铅*	69011-06-9	0.005
VIII	86	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.050
VIII	87	乙二醇二乙醚	629-14-1	0.050
VIII	88	1-溴丙烷	106-94-5	0.050
VIII	89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.050
VIII	90	对特辛基苯酚乙氧基醚	-	0.050
VIII	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.050
VIII	92	4,4'-二氨基二苯醚及其盐	101-80-4	0.050
VIII	93	4-氨基偶氮苯	60-09-3	0.050
VIII	94	2,4-二氨基甲苯	95-80-7	0.050
VIII	95	4-壬基(支链与直链)苯酚	-	0.050
VIII	96	2-甲氧基-5-甲基苯胺	120-71-8	0.050
VIII	97	碱式乙酸铅*	51404-69-4	0.005
VIII	98	4-氨基联苯	92-67-1	0.050
VIII	99	十溴二苯醚(DecaBDE)	1163-19-5	0.050
VIII	100	环己烷-1,2-二羧酸酐,顺式-环己烷-1,2-二羧酸酐,反式-环己烷-1,2-二羧酸酐	-	0.050



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Guangzhou Branch (Guangzhou) Chemical Laboratory

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附录

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批次	序号	物质名称	CAS No.	RL (%)
VIII	101	偶氮二甲酰胺	123-77-3	0.050
VIII	102	二丁基二氯化锡(DBTC)	683-18-1	0.050
VIII	103	硫酸二乙酯	64-67-5	0.050
VIII	104	邻苯二甲酸二异戊酯	605-50-5	0.050
VIII	105	硫酸二甲酯	77-78-1	0.050
VIII	106	地乐酚	88-85-7	0.050
VIII	107	双(十八烷基)二氧代三铅*	12578-12-0	0.005
VIII	108	C16-18-脂肪酸铅*	91031-62-8	0.005
VIII	109	呋喃	110-00-9	0.050
VIII	110	全氟十一烷酸	2058-94-8	0.050
VIII	111	全氟十四烷酸	376-06-7	0.050
VIII	112	甲基六氢邻苯二甲酸酐,4-甲基六氢邻苯二甲酸酐,1-甲基六氢邻苯二甲酸酐,3-甲基六氢邻苯二甲酸酐	-	0.050
VIII	113	四氟硼酸铅*	13814-96-5	0.005
VIII	114	氨基氰铅盐*	20837-86-9	0.005
VIII	115	硝酸铅*	10099-74-8	0.005
VIII	116	一氧化铅*	1317-36-8	0.005
VIII	117	碱式硫酸铅*	12036-76-9	0.005
VIII	118	四氧化三铅*	1314-41-6	0.005
VIII	119	钛酸铅*	12060-00-3	0.005
VIII	120	钛酸铅铅*	12626-81-2	0.005



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批次	序号	物质名称	CAS No.	RL (%)
VIII	121	甲氧基乙酸	625-45-6	0.050
VIII	122	1,2-环氧丙烷	75-56-9	0.050
VIII	123	N,N-二甲基甲酰胺	68-12-2	0.050
VIII	124	N-甲基乙酰胺	79-16-3	0.050
VIII	125	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.050
VIII	126	邻-氨基偶氮甲苯	97-56-3	0.050
VIII	127	2-氨基甲苯	95-53-4	0.050
VIII	128	全氟十三烷酸	72629-94-8	0.050
VIII	129	硫酸四氧化五铅*	12065-90-6	0.005
VIII	130	铅锑黄*	8012-00-8	0.005
VIII	131	掺杂铅的硅酸钡*	68784-75-8	0.005
VIII	132	硅酸铅*	11120-22-2	0.005
VIII	133	二碱式亚硫酸铅*	62229-08-7	0.005
VIII	134	四乙基铅*	78-00-2	0.005
VIII	135	硫酸三氧化四铅*	12202-17-4	0.005
VIII	136	全氟十二烷酸	307-55-1	0.050
VIII	137	碱式碳酸铅*	1319-46-6	0.005
VIII	138	二碱式亚磷酸铅*	12141-20-7	0.005
IX	139	4-壬基(支链与直链)苯酚乙氧基醚	-	0.050
IX	140	全氟辛酸铵(APFO)**	3825-26-1	0.050
IX	141	氧化镉*	1306-19-0	0.005



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所有检测的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
IX	142	镉	7440-43-9	0.005
IX	143	邻苯二甲酸二正戊酯(DPP)	131-18-0	0.050
IX	144	全氟辛酸(PFOA)	335-67-1	0.050
X	145	硫化镉*	1306-23-6	0.005
X	146	邻苯二甲酸二正己酯	84-75-3	0.050
X	147	C.I.直接红28	573-58-0	0.050
X	148	C.I.直接黑38	1937-37-7	0.050
X	149	2-巯基咪唑啉	96-45-7	0.050
X	150	乙酸铅*	301-04-2	0.005
X	151	磷酸三二甲苯酯	25155-23-1	0.050
XI	152	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.050
XI	153	氯化镉*	10108-64-2	0.005
XI	154	水合过硼酸钠*	-	0.005
XI	155	过硼酸钠*	7632-04-4	0.005
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	25973-55-1	0.050
XII	157	2-苯并三唑-2-基-4,6-二叔丁基苯酚 (UV-320)	3846-71-7	0.050
XII	158	二正辛基-双(2-乙基己基巯基乙酸酯)锡 (DOTE)	15571-58-1	0.050
XII	159	氟化镉*	7790-79-6	0.005
XII	160	硫酸镉*	10124-36-4, 31119-53-6	0.005
XII	161	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	-	0.050



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(SVHC)

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所有检测的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XIII	162	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	-	0.050
XIII	163	5-二叔丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.050
XIV	164	1,3-丙磺酸内酯	1120-71-4	0.050
XIV	165	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350)	36437-37-3	0.050
XIV	167	硝基苯	98-95-3	0.050
XIV	168	全氟壬酸及其钠盐和铵盐	-	0.050
XV	169	苯并(a)芘	50-32-8	0.050
XVI	170	4,4'-异亚丙基联苯酚 (双酚A)	80-05-7	0.050
XVI	171	4-庚基(支链与直链)苯酚	-	0.050
XVI	172	全氟癸酸 (PFDA) 及其钠盐和铵盐	-	0.050
XVI	173	对叔戊基苯酚	80-46-6	0.050
XVII	174	全氟己烷-1-磺酸及其盐	-	0.050
XVIII	175	双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)	-	0.050
XVIII	176	苯并蒽(BaA)	56-55-3	0.050
XVIII	177	硝酸镉*	10325-94-7	0.005
XVIII	178	碳酸镉*	513-78-0	0.005
XVIII	179	氢氧化镉*	21041-95-2	0.005
XVIII	180	屈(CHR)	218-01-9	0.050



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所有检测的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XVIII	181	1,3,4-噻二唑-2,5-二硫酮、甲醛与支链和直链4-庚基苯酚的反应产物(RP-HP)[含有支链和直链4-庚基苯酚重量比 $\geq 0.1\%$]	-	0.050
XIX	182	1,2,4-苯三酸酐 (偏苯三酸酐)	552-30-7	0.050
XIX	183	苯并(g,h,i)芘(二苯嵌苯) (BPE)	191-24-2	0.050
XIX	184	十甲基环五硅氧烷(D5)	541-02-6	0.050
XIX	185	邻苯二甲酸二环己酯	84-61-7	0.050
XIX	186	氧化硼钠*	12008-41-2	0.005
XIX	187	十二甲基环六硅氧烷(D6)	540-97-6	0.050
XIX	188	乙二胺	107-15-3	0.050
XIX	189	铅	7439-92-1	0.005
XIX	190	八甲基环四硅氧烷(D4)	556-67-2	0.050
XIX	191	氢化三联苯	61788-32-7	0.050
XX	192	1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮 (3-亚苄基樟脑)	15087-24-8	0.050
XX	193	4,4'-(1,3-二甲基丁基)二苯酚(1,3-DMBBP)	6807-17-6	0.050
XX	194	苯并(k)荧蒽(BkF)	207-08-9	0.050
XX	195	荧蒽(FLT)	206-44-0	0.050
XX	196	菲(PHE)	85-01-8	0.050
XX	197	茚(PYR)	129-00-0	0.050
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(包括单体和组合)(HFPO-DA)	-	0.050
XXI	199	2-甲氧基乙基乙酸酯	110-49-6	0.050



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附录

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批次	序号	物质名称	CAS No.	RL (%)
XXI	200	4-叔丁基苯酚(PTBP)	98-54-4	0.050
XXI	201	三(4-壬基苯基, 支链和直链)亚磷酸酯(TNPP)(含≥0.1%的支链和直链4-壬基苯酚)	-	0.050
XXII	202	2-苄基-2-二甲基氨基-4'-吗啉基苯基丁酮	119313-12-1	0.050
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.050
XXII	204	邻苯二甲酸二异己酯	71850-09-4	0.050
XXII	205	全氟丁烷磺酸及其盐	-	0.050
XXIII	206	1-乙烯基咪唑	1072-63-5	0.050
XXIII	207	2-甲基咪唑	693-98-1	0.050
XXIII	208	对羟基苯甲酸丁酯	94-26-8	0.050
XXIII	209	双(乙酰丙酮基)二丁基锡**	22673-19-4	0.050
XXIV	210	四乙二醇二甲醚	143-24-8	0.050
XXIV	211	二月桂酸二辛基锡及任何其他二辛基锡双(脂肪酰氧基)衍生物**	-	0.050
XXV	212	1,4-二氧六环	123-91-1	0.050
XXV	213	二溴新戊二醇(BMP); 三溴新戊醇(TBNPA); 2,3-二溴-1-丙醇(2,3-DBPA)	-	0.050
XXV	214	铃兰醛及其立体异构体	-	0.050
XXV	215	双酚B	77-40-7	0.050
XXV	216	戊二醛	111-30-8	0.050
XXV	217	中链氯化石蜡(MCCP)	-	0.050
XXV	218	原硼酸钠盐*	13840-56-7	0.005
XXV	219	对十二烷基苯酚及其异构体(PDDP)	-	0.050



SGS-CSTC Technical Services Co., Ltd.
Guangzhou Branch (Institutional Chemical Laboratory)

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检测报告

编号: CANEC2201952012

日期: 2022年02月18日 第17页,共19页

(SVHC)

附录

所有检测的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环[2.2.1]庚-2-酮, 包括各个异构体和/或其组合(4-MBC)	-	0.050
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) (DBMC)	119-47-1	0.050
XXVI	222	S-(三环[5.2.1.0 ^{2,6}]癸-3-烯-8(或9)-基) O-(异丙基或异丁基或2-乙基己基) O-(异丙基或异丁基或2-乙基己基)二硫代磷酸酯	255881-94-8	0.050
XXVI	223	乙烯基-三(2-甲氧基乙氧基)硅烷	1067-53-4	0.050
/	224	间苯二酚	108-46-3	0.050



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Guangzhou Branch Testing Center Chemical Laboratory

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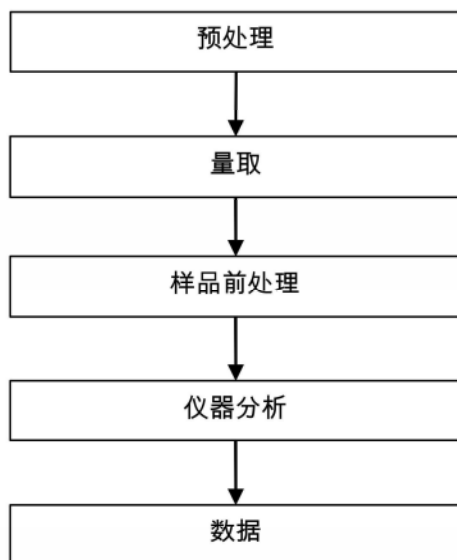
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附件

SVHC 测试流程图

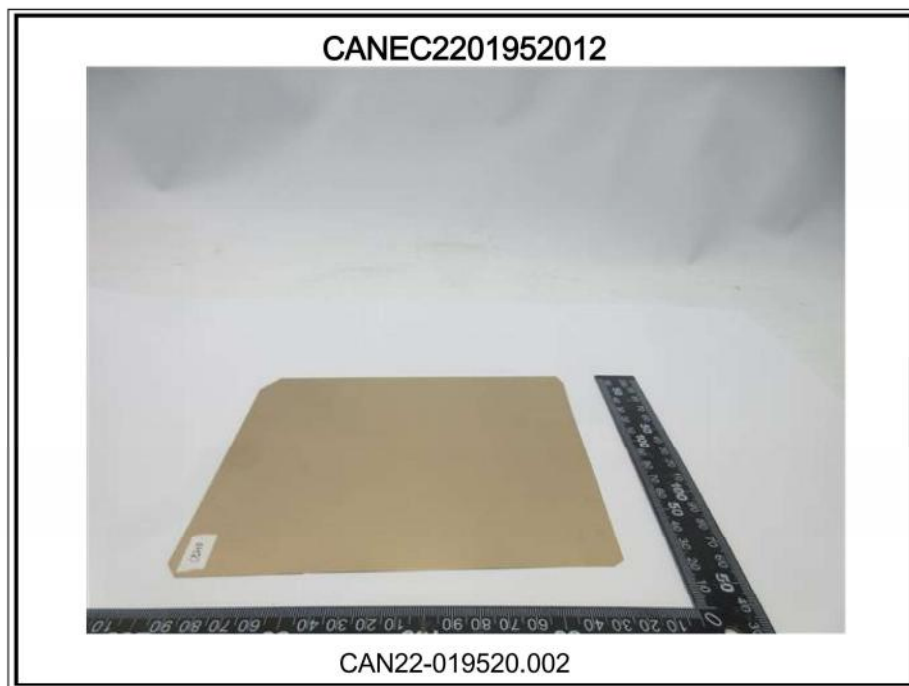


检测报告 (SVHC)

编号: CANEC2201952012

日期: 2022年02月18日 第19页,共19页

样品照片:



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*** 报告完 ***



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Guangzhou Branch (SGS) Chemical Laboratory

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检测报告

编号: CANEC2201952008

日期: 2022年02月18日 第1页,共9页

客户名称: 福建紫金铜业有限公司
客户地址: 福建省上杭县南岗工业开发区

样品名称: 锡磷青铜: C5210
以上样品及信息由客户提供。

SGS工作编号: 22432719 - XM
样品接收日期: 2022年02月11日
检测周期: 2022年02月11日 - 2022年02月18日
检测要求: 根据客户要求检测
检测方法: 请参见下一页
检测结果: 请参见下一页

结论: 基于所送样品进行的检测, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁酯(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))的检测结果显示符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司
授权签名

陈江梨

Allie Chen陈江梨
批准签署人



BED01358



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检测报告

编号: CANEC2201952008

日期: 2022年02月18日 第2页,共9页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN22-019520.002	黄铜色金属

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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

检测方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, 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	002
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	5
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	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



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检测报告

编号: CANEC2201952008

日期: 2022年02月18日 第3页,共9页

检测项目	限值	单位	MDL	002
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)	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)最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) 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

(3) ▼=a. 当六价格的浓度高于0.13 $\mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价格;b. 当六价格的浓度为ND(低于0.10 $\mu\text{g}/\text{cm}^2$)时, 样品为阴性, 即未检测到六价格;c. 当六价格的浓度介于0.10 $\mu\text{g}/\text{cm}^2$ 与0.13 $\mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价格, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期, 样品的六价格检测结果仅能代表检测时样品含六价格的状态。

卤素

检测方法: 参考EN 14582:2016, 用 IC分析。

检测项目	单位	MDL	002
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

元素分析

检测方法: SGS内部方法 (GZTC CHEM-TOP-009-01, 参考EPA 3050B:1996), 采用ICP-OES进行分析。



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Guangzhou Branch Testing & Calibration Laboratory

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检测报告

编号: CANEC2201952008

日期: 2022年02月18日 第4页,共9页

检测项目	单位	MDL	002
锑 (Sb)	mg/kg	10	ND
铍 (Be)	mg/kg	5	ND

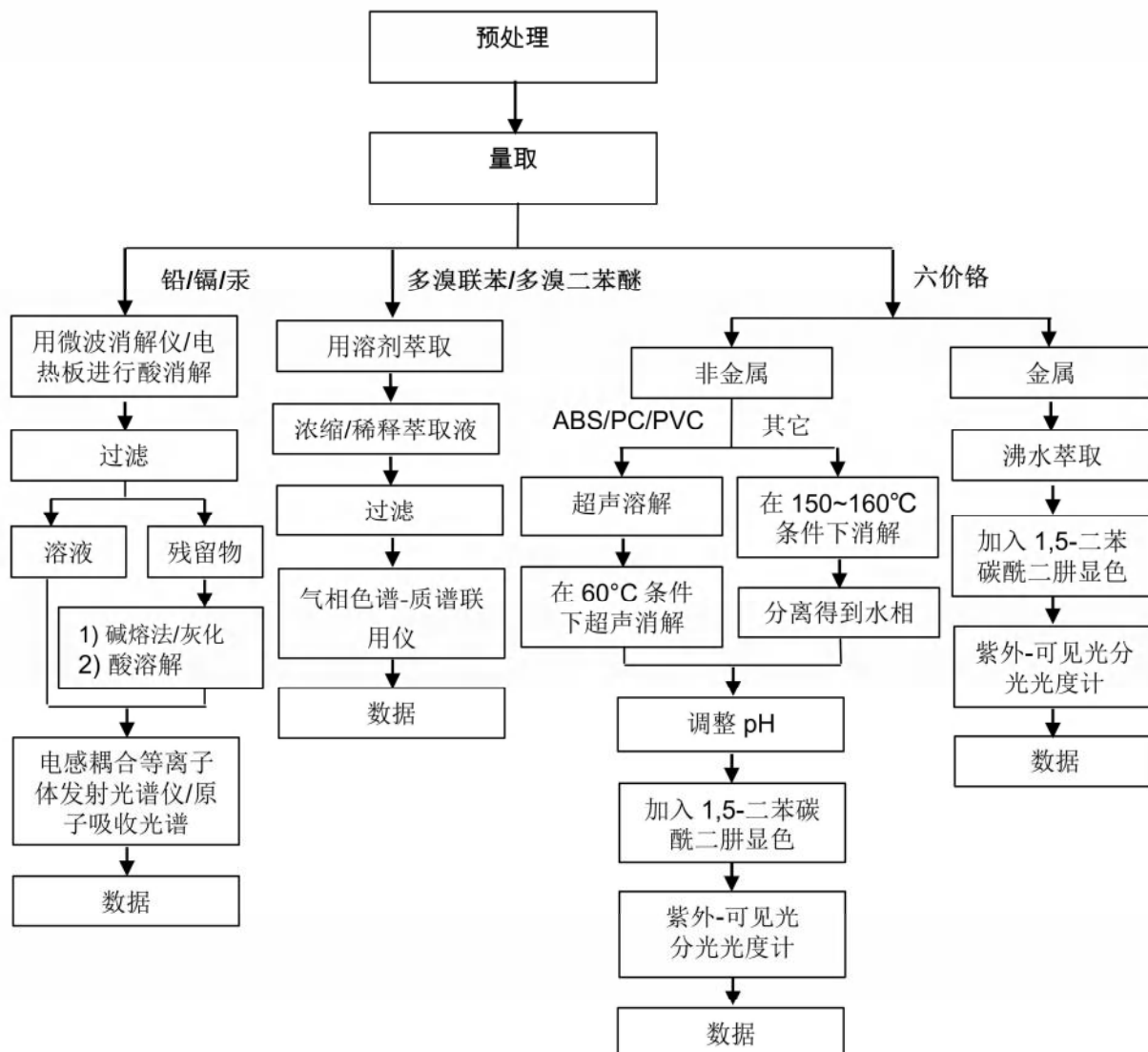
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检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



附件

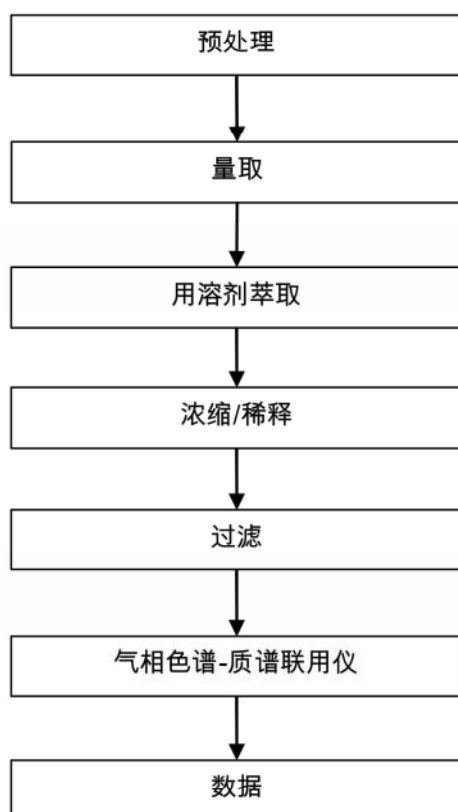
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

1) 样品按照下述流程被完全消解（六价铬和多溴联苯/多溴二苯醚测试除外）。



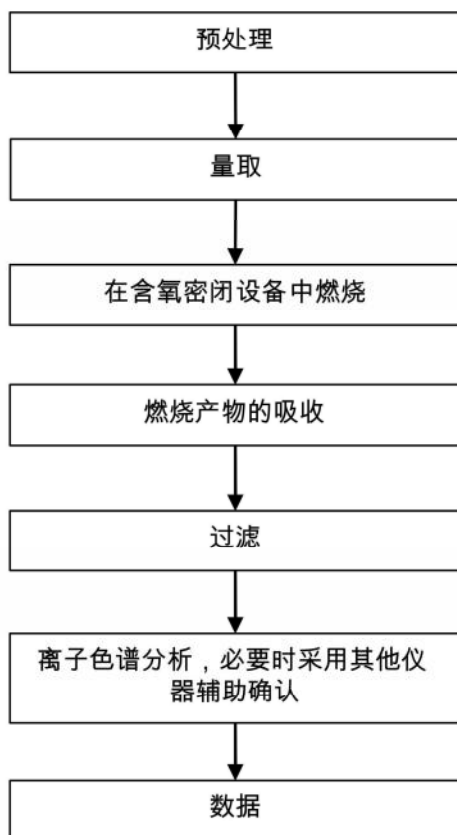
附件

Phthalates 测试流程图



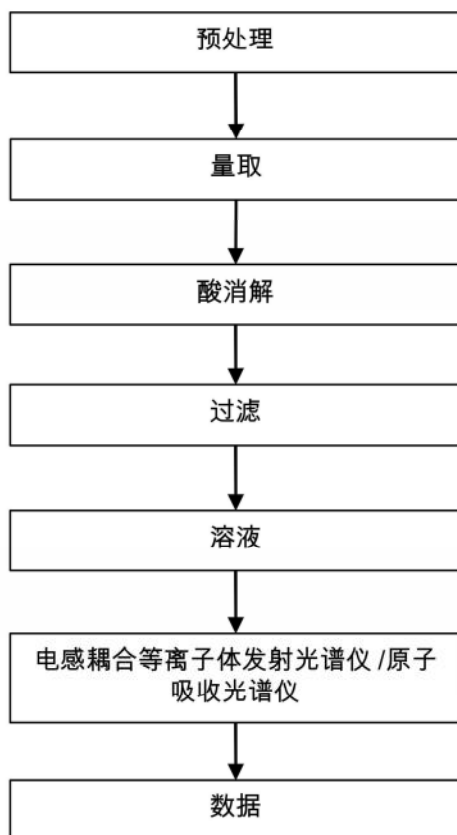
附件

Halogen 测试流程图



附件

元素测试流程图



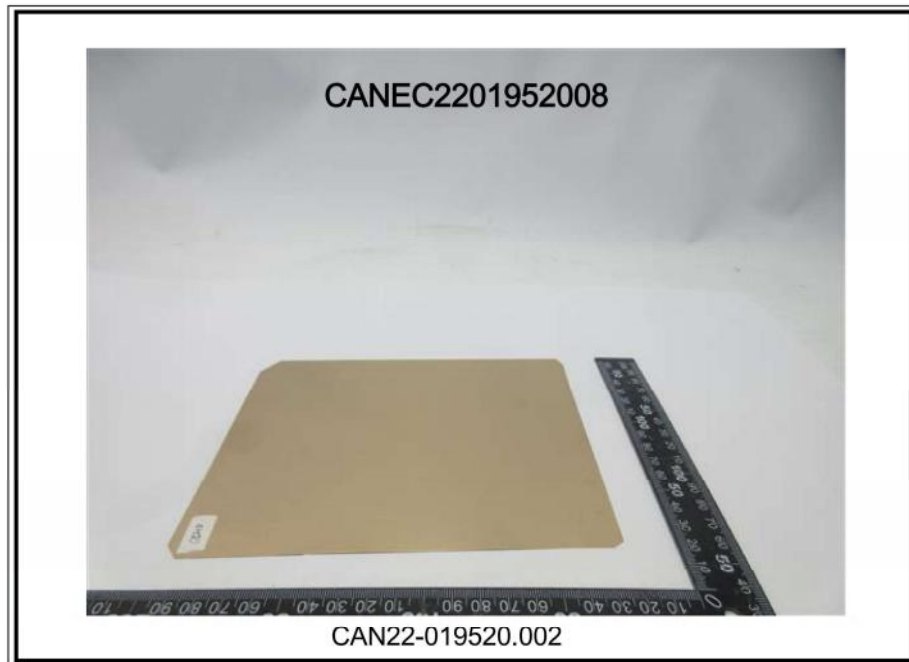
检测报告

编号: CANEC2201952008

日期: 2022年02月18日

第9页,共9页

样品照片:



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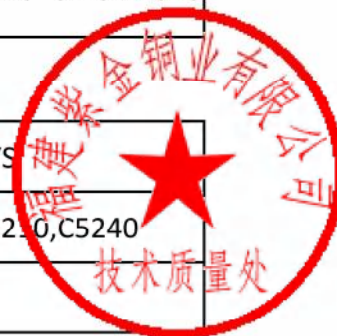
Safety Data Sheet

MSDS C5111、C5102、C5191、C5210、C5240

Safety data sheet No: MCL001	Date of revision: 01-08-2018
Version: 7	Previous revision: 01-01-2018

Supplier/Manufacturer Information:

Product Name:	PHOSPHOR BRONZE ALLOYS
Material code:	JIS C5111 ,C5102,C5191,C5210,C5240
Chemical name:	Cu, Sn Alloy
Classification:	Copper Alloy
Supplier Name:	FUJIAN ZIJIN COPPER CO.,LTD
Address	Nangang Industrial Development Zone, Shanghang, Fujian, China 364200
TEL:	TEL:0597-3960633 FAX : 0597-3833128
Vendor URL:	www.fjzjty.com
Information in case of emergency:	0597-3960600



2、Semi-finished products out of copper tin alloys:

CAS NO:	Chemical	C5111	C5102	C5191	C5210	C5240
7440-50-8	Cu	≥94.5	≥93.65	≥92.15	≥90	≥90
7440-31-5	Sn	3.5-4.5	4.5-5.5	5.5-7	7.0-9.0	9.0-11.0
7723-14-0	P	0.03-0.35	0.03-0.35	0.03-0.35	0.03-0.35	0.03-0.35
7440-66-6	Zn	≤0.2	≤0.2	≤0.2	≤0.2	≤0.2
7439-92-1	Pb	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02
7439-89-6	Fe	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
7440-02-0	Ni	≤0.06	≤0.06	≤0.06	≤0.06	≤0.06
7429-90-5	铝 (Al)	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002
7440-21-3	硅 (Si)	≤0.003	≤0.003	≤0.003	≤0.003	≤0.003

3、 OSHA Management Status : Not hazardous in solid state. It's dust and smoke are carcinogenic and irritating to lungs, blood, and kidneys. Repeated toxic and neurotoxic toxins

Hazardous Materials Identification System(HMIS)

POSSIBLE HAZARDS

Exposure to dust and smoke in the working environment could cause irritation to the eyes, respiratory system, and skin. Its presence of metals may have recurrent and neurological effects on blood and kidneys, and may also possibly cause cancer. Keep adequate ventilation to avoid contact with eyes, skin and clothing directly. Wear protective gear, including goggles, appropriate clothing.

Chemical characterization:	PHOSPHOR BRONZE ALLOYS
Harmful Identification:	Metal dust and smoke will be irritating to the skin, eyes, and toxic to the lungs.
HMIS Harmful Level:	Health: 2 Flammability: 0 (0=low, 4=high) Physical hazards: none
IDLH Value of immediate harmful effects to life or health:	IDLH(3/1/95): None BRONZE ALLOYS dust and smoking, Pb ,Sn,:100mg/ m ³ P: 5mg/ m ³ Fe dust and smoking: 2500mg/ m ³ Zinc oxide: 500mg/ m ³

Possible Hazards

Eye protection: Metal dust and smoke in the working environment could cause redness and pain, Conjunctivitis.

Skin protection: This substance does not seep into the body through the skin and is absorbed. But could cause pain.

Inhalation protection: Inhalation is harmful to the human body. Severe breathing, irritation, coughing, breathing difficulties.also could cause flu-like,but this kind of symptom could disappear within 24 hours, Probably longer.
Eating Protection: Inhale amount of dust, may Spud, diarrhea, stomachache.

Chronic effects: exposure to lead can cause human kidney damage, anemia, recurrent and developmental effects, permanent neurological damage



4、First aid measures

For dusts and smoke hazards

After eye contact:	A lot of water washed the interior of the eyes (15 minutes) Serious to the hospital
After skin contact:	A lot of water washed clothes contact area. Must clean it thoroughly Serious to the hospital
After inhalation:	Ventilation is good for rest, keep warm with towels Serious to the hospital
After swallowing:	Drink plenty of water and induce vomiting. Serious to the hospital

Medical tips : There is no special antidote for the constituent elements of this product. Apply medicine according to indications

5、Fire and explosion hazards

Flame data

Esplosion:	None
Flame:	None
Flash point:	None
Self-ignite:	None

Firefighting measures:

When the material powder in the small area caught fire, Dry sand, lime powder, salt or soda powder to be extinguished . In the event of fire in other situations, use it to properly extinguish the fire

Accidental and esplosure measures

Attention that dust can cause explosions or produce flammable gases

6、Accidental release measures

When dust is arised during processing, the product may explode and the fire source must be removed

7、Handling and storage

Information for safe handling

Semi-finished product of a cylinder-shaped could cuts hand easily. Personal protective equipment, attention eyes, skin and breathing. dust must not release to the environment. The product is in danger of falling down. Transport must take care. When the package belt is removed, Pay attention to the end will bounce. Eyes, skin and body would be cut if bounced. Dust must washed over or HEPA, could not Slapping or other handling

Storage provisions

Maximum temperature in storage: None
Avoid placement in moist or acidic or alkaline conditions

8、Exposure restriction and control/personal protective equipment



CAS NO:	Exposure Lev	OSHA(PEL)	ACGIH(TLV)
7440-50-8(CU)	Smoke	0.1mg/m ³	0.2mg/m ³
7440-50-8(CU)	Smoke	1mg/m ³	1mg/m ³
7440-31-5(Sn)	dust	2mg/m ³	2mg/m ³
7723-14-0(P)		0.1mg/m ³	0.1mg/m ³
7440-66-6(Zn)		none	none
7439-92-1(Pb)	Smoke and dust	0.05mg/m ³	0.05mg/m ³
7439-89-6(Fe)		none	none

This product will be heated to produce smoke, zinc oxide smoke may form
OSHA(PEL) and ACGIH(TLV) Limit value for zinc oxide smoke 5mg/ m³

Inhalation protection	Do not wear a mask under normal circumstances But Over ceiling PEL/TLV must wear mask NIOSH
Ventilation protection	In the work area, if smoke and dust are produced, ventilation equipment and dust collection devices must be provided, and no food and smoking should be allowed at work.
Eye and face protection	Need wear goggles
Skin protection	Wear work clothes, safety shoes and protective gloves Avoid direct contact with skin or material and prevent cuts

OSHA (Occupational Safety and Health Administration)

NIOSH (National Institute for Occupational Safety and Health)

IDLH (Immediately Dangerous to Life or Health)

TWA (Time Weighted Average) PEL (Permissible Exposure Limit)

**9、Physical environmental measure:**

Appearance:	Light red sheen solid metal
Melting Point:	C5100(950~1060℃), C5191 (900~1045℃) C5210(870~1030℃), C5240 (840~1020℃)
Boiling point:	none
Proportion:	C5100(8.86),C5191(8.83),C5210(8.80),C5240(8.7)
Steam pressure:	none
solubility:	none
PH 25℃:	none

10、Stability and Activity Data

Stability:	Stable substances at normal normal temperature and atmosphere, inactive substances
Avoiding conditions:	There is no biochemical reaction when subjected to mechanical impact or electricity.
Avoidance of materials:	Chlorine: With metal brass, copper subdivision should form a violent or explosive reaction Acetylene: To form explosive compounds with brass
Hazard decomposer:	When heated to decomposition temperature, metal oxides and smoke are produced
Polymerization of hazards:	Metal smoke fever that may cause symptoms like a flu-like

11、Toxicological information**Potential exposure**

Dust: Ingestion, skin contact, inhalation, eye contact

Smoke: inhalation, eye contact

Semi-finished product not toxicigical

Animal Acute Toxicity Data: half lethal dose(LD₅₀) concentration(LC₅₀)

Alloy dust and smoke :	CU	SN	P	ZN	Pb	Fe
take orally(LD ₅₀)	3.5mg/kg(mouse at abdomen	none	none	none	none	30mg/kg(mouse)
Skin(LD ₅₀)	375mg/kg(rabbit	none	none	none	none	none

Inhalation (LC ₅₀)	none	none	none	none	none	none
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12、Environmental information

Ecological toxicity of this alloy product : none

The toxicity of the single component is described below :

Ecotoxicity: Solubility in Water , in 0.1-1mg/lThe range has been proven by many researchers to be non-toxic to most fish。 But concentration in 0.015-3mg/l, Especially in soft water, it can be toxic to many types of fish, crustaceans, mollusks, and plankton。

Lead is 2-5 mg / l for large sunfish / Lansiyu. Lead is toxic to aquatic fish。

Liquidity: Decomposition of lead into the soil 。

Persistence / decomposability: Lead is persistent and redundant in the environment 。

Ecological burden: none

13、Waste Disposal

The alloy product is not hazardous waste: Local recyclers can be commissioned to recycle when discarded 。

14、Transport Information

USA DOT: NONE。

This product should not be in direct contact with water during transportation, and it should be noted that it will slip and fall into danger.

15、Information on regulations

There are usually no specific regulations, but in places where dust can be generated, the labor safety and health laws must be followed.

USA/OHSA:Occupational Safety Health Administration

USA/ACGIH Guide to protective Clothing.Cincinnati,OH:American Conference of Government Industrial Hygienists,1987

USA/SARA313



16、Other information

Table Units: FUJIAN ZIJIN COPPER CO., LTD

Attention: The MSDSContent information shall be used, shipped, stored or exposed to the alloy products by all companies/ Personnel are fully aware of and accept and apply to the use, processing, manufacture or management of the relevant work regulations relating to the alloy products: Users determine their availability according to application requirements. The MSDS The content of the data has been included in the latest information at the time of compilation, but there is no guarantee for all the content.

检测报告

编号: SZXEC2200708602

日期: 2022年03月29日 第1页,共6页

客户名称: 深圳和盛新创科技有限公司

客户地址: 中国深圳市龙华新区观澜新田社区新樟路115号2栋102

样品名称: SUS304电镀

以上样品及信息由客户提供。

SGS工作编号: RP22-005342 - SZ

样品接收日期: 2022年03月24日

检测周期: 2022年03月24日 - 2022年03月29日

检测要求: 根据客户要求检测

检测方法: 请参见下一页

检测结果: 请参见下一页

结论: 基于所送样品进行的检测, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁酯(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))的检测结果显示符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司深圳分公司
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倪磊

Andy Ni 倪磊

批准签署人

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检测报告

编号: SZXEC2200708602

日期: 2022年03月29日 第2页,共6页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	SZX22-007086.001	带银灰色镀层的金属

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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

检测方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, 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	001
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	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



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检测报告

编号: SZXEC2200708602

日期: 2022年03月29日

第3页,共6页

检测项目	限值	单位	MDL	001
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)	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) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) 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

(3) ▼= a. 当六价格的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价格;b. 当六价格的浓度为ND(低于0.10 µg/cm²)时, 样品为阴性, 即未检测到六价格;c. 当六价格的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价格, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期, 样品的六价格检测结果仅能代表检测时样品含六价格的状态。

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。

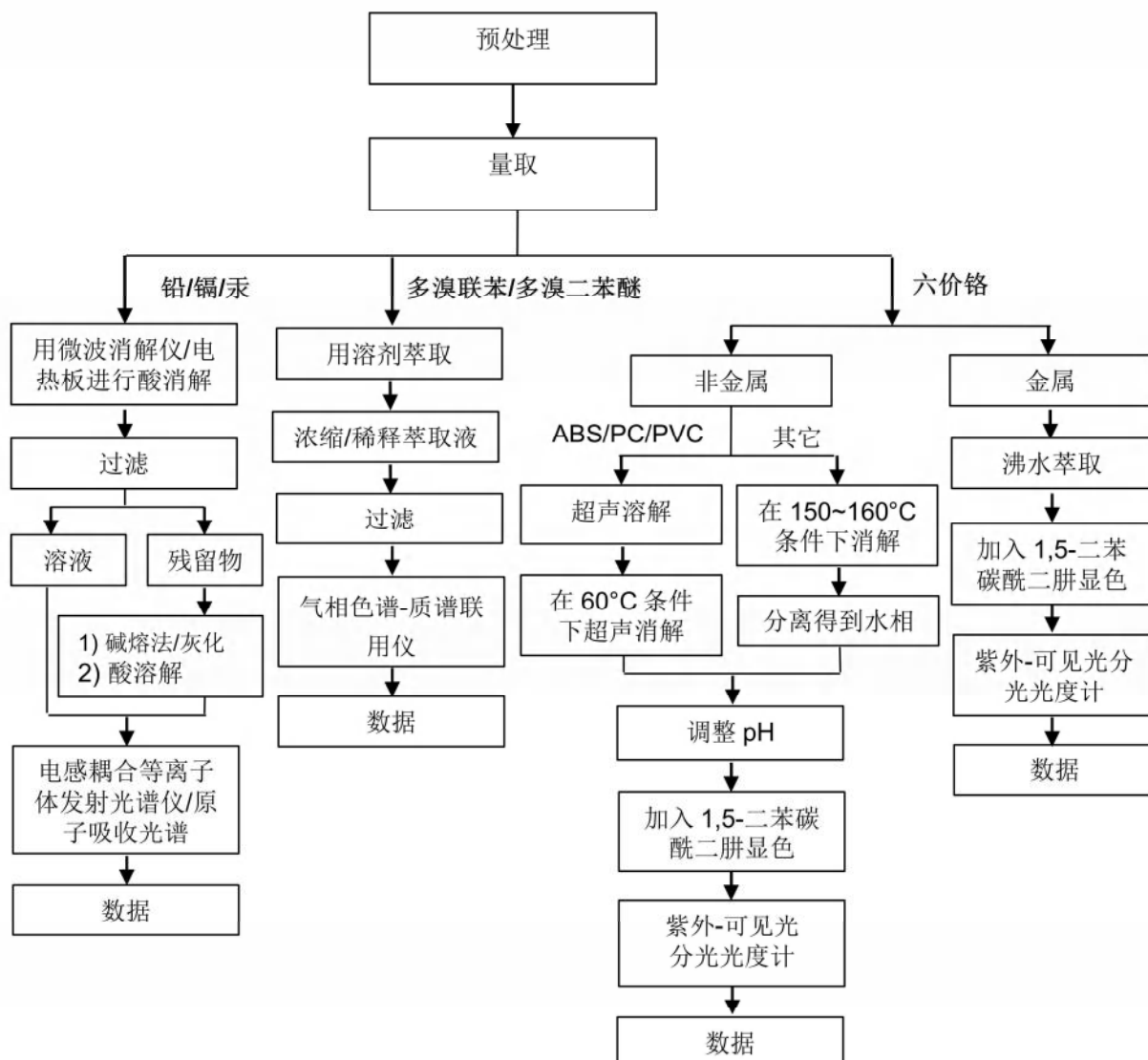
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



附件

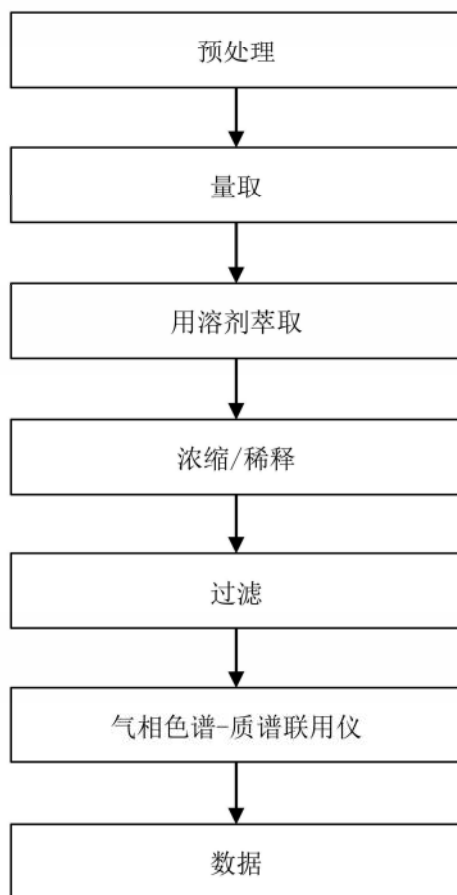
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 检测流程图

1) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



附件

Phthalates 检测流程图



检测报告

编号: SZXEC2200708602

日期: 2022年03月29日 第6页,共6页

样品照片:



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*** 报告完 ***