

## 检测报告

编号: TSNEC2300888102

日期: 2023年04月12日 第1页,共9页

客户名称: 邢台钢铁有限责任公司  
客户地址: 河北省邢台市钢铁南路262号

样品名称: 热轧圆盘条  
型号: SWRCH22A  
客户参考信息: 见附页:  
以上样品及信息由客户提供。

SGS工作编号: TP23-002407 - TJ  
样品接收日期: 2023年04月07日  
检测周期: 2023年04月07日 - 2023年04月12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

## 检测结果概要:

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),邻苯二甲酸丁苯酯(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

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周艳

Reabeca Zhou周艳  
批准签署人

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## 检测报告

编号: TSNEC2300888102

日期: 2023年04月12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	TSN23-008881.001	灰色金属

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

### 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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, 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)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND
多溴联苯之和(PBBs)	1000	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)	1000	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



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检测项目	限值	单位	MDL	001
五溴二苯醚	-	mg/kg	5	ND
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。
- (3) ▼=a. 当六价铬的浓度高于0.13  $\mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
  - b. 当六价铬的浓度为ND(低于0.10  $\mu\text{g}/\text{cm}^2$ )时, 样品为阴性, 即未检测到六价铬;
  - c. 当六价铬的浓度介于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铬, 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, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。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。



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附页:

(XG)SWRCH6-22A、(XG)SWRCH6AB-22AB、SWRCH6ATi/8ATi/18ATi、  
 SWRCH6AB-Ti、SWRCH18AB-THA、SWRCH22A+Ti、SWRCH22A-Ti、  
 SWRCH6A/10A/12A-P、GSWRCH6A-A(A1)、GSWRCH10A/15A、GSWRCH10A/12A/22A-1、  
 GSWRCH10A-X、GSWRCH10A/15A/18A/22A-B、SWRCH18A-G、QSWRCH10A/18A/22A、  
 QSWRCH8A/10A/12A/15A/18A/22A-B、QSWRCH10A/18A/22A-C、QSWRCH18AB-B、  
 (XG)SWRCH10-45K、GSWRCH20K/25K/35K/40K/45K、QSWRCH20K/25K/35K/40K/45K、  
 QSWRCH20K/25K/35K/40K/45K-MT、SWRCH35K-P、XGSWRCH45KB、XGSWRCH45KCr、  
 GSWRCH35K-1、GSWRCH35KM、GSWRCH35K-B、QSWRCH35K-B、SWRCH40K-  
 1(QSWRCH40K-C)、QSWRCH45K-B、QSWRCH35K/45K-C、10B21-38、10B33-FY、10B33-FLT、  
 10B21Cr-33Cr、15B25、51B20、SAE10B21、SWRCH10B21、SAE10B35(A)、XG10B21-38、  
 XG10B33M、XG15B21、XG15B25、10B21-1、10B21-P、10B33-P、G10B21、G10B33、  
 G10B21-C、Q10B21、Q10B21-C、Q10B21-K、Q10B21-DW(10B21)、Q10B23M-C、Q10B33-C、  
 Q15B25M-MT、Q15B25M、B25、Q15B25-B、QSAE10B35-B、(XG)ML20Cr、GML20Cr、  
 GML20Cr-B、QML20Cr、QML20Cr-B、QML20Cr-DF、(XG)ML40Cr、ML40Cr-P、GML40Cr、  
 GML40Cr-A/B、QML40Cr-B、QML40CrH-C、SCM415/420/435/440、SCM435-M/D、  
 GSCM420/435/440-C、QSCM435/440-C、QSCM435(-MT)、15-35CrMo、35CrMoA、ML20CrMo、  
 (ML)42CrMo(A)、GML42CrMo、S15C-45C、XGS15C-45C、GS35C-1、GS45C-1、S45CB、  
 S45CMOD、XGS45C-JC、XGS45CB、(XG)S45C-G、GS25C/35C/45C-A、GS25C/35C/45C-B、  
 QS35C-C、MLO8A1、MLO8A1-1、ML15A1、HD15、XGML08A1、ML35、GML08A1-B、  
 (XG)ML20MnTiB、ML20MnTiB-B、G/QML20MnTiB-B、SAE1008-1018、SAE1006B-1018B、  
 SAE1006/1008/1010/1018-Ti、GSAE1018、QSAE1018(-B)、QSAE8640-B、(XG)35ACR、  
 WRCH7A(Q40ACR-C)、D106BT、D108BT、C4/8/10C、QC15C-B、1215、1215MS-1、  
 20CrMnTi、30CrMnTi、(G/Q)ML45Mn2、M8、M10、LY1、LY、CH1T、CH1A、DT4、XGYT0、  
 XGYT1、XGM6-1/2/PB、XG295NH、G295NH、XG835NH、50BV30、SAE6150、B7、16MnCr5、  
 (Q)20MnB4、30MnVS6、40CrMoV、40CrMoV4-6、SNB16、B16、C15E2CM、G33B2-B、  
 MnB120H、MnB123H、QSt32-3、Cq15、Q17Cr3-B、Q37MnB5、Q15MnVB-A、35VB、SCr420B、  
 SCr440、GSWRH67B、FT8、FT9、Q85Mn、GCr15、GCr15-1、GCr15-A、GCr15-DH、GCr15-Y、  
 GCr15-L、GCr15-ZWZ、GCr15-LX、GCr15-LX1、QGCr15、(XG)SWRH72A、XGLX82A、  
 XGLX82A-P、XGLB72/75/82/85A(B)、XGLX72A-1、XGLX72B、55SiCrA(-1)、Q55SiCrA-1(54SiCr6)、  
 60Si2MnA、60Si2CrA、SWRS82B、GSWRH82B-1、HG18、Q215、LL15、S20A、20CrMnTi、  
 30CrMnTi、25MnV、FT8-1、LD22、QS20C-B、(X)ER70S-6、NHF8、9SiCr、20Mn2、  
 SWRH85B-DL、SWRH82BCr、SWRY11、Q195、Q195M、PYML1100、H13、MH600、  
 QS45C-C、65Mn、T12A

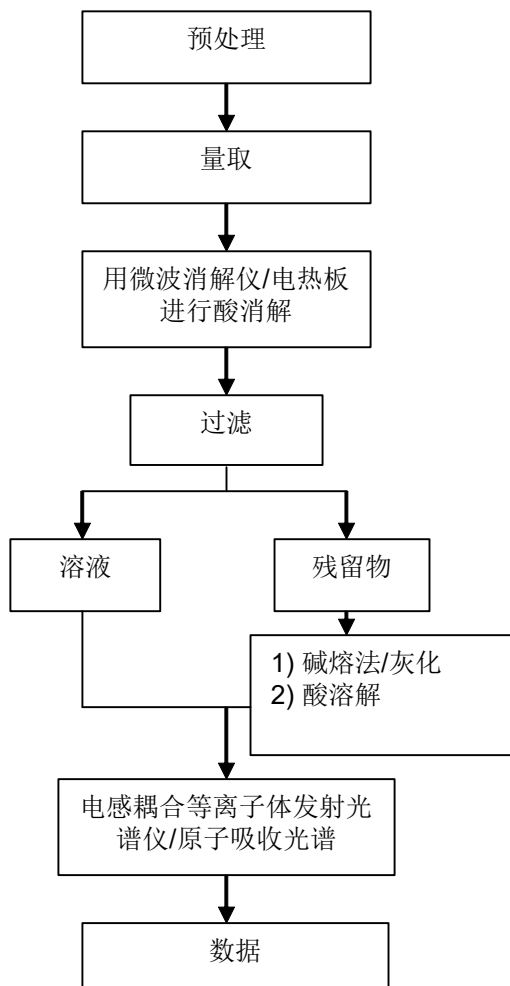


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## 元素(IEC62321) 检测流程图

1)样品按照下述流程被完全消解



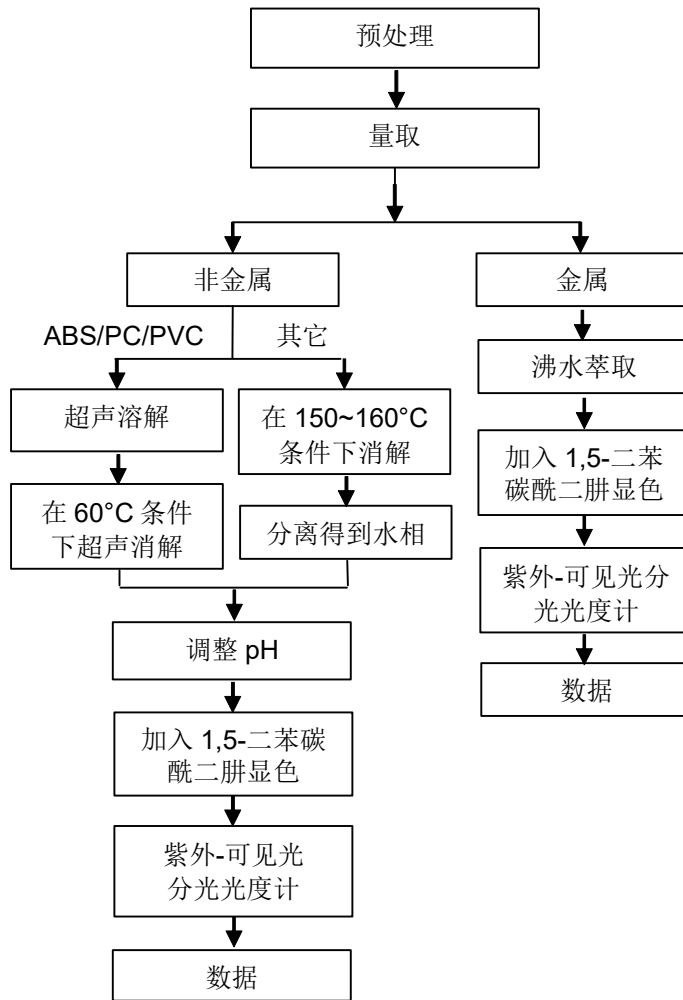
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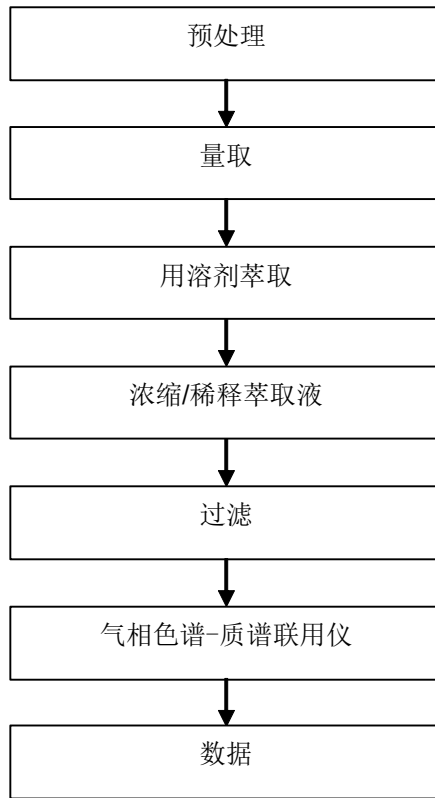
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## 六价铬检测流程图



## PBBs/PBDEs 检测流程图



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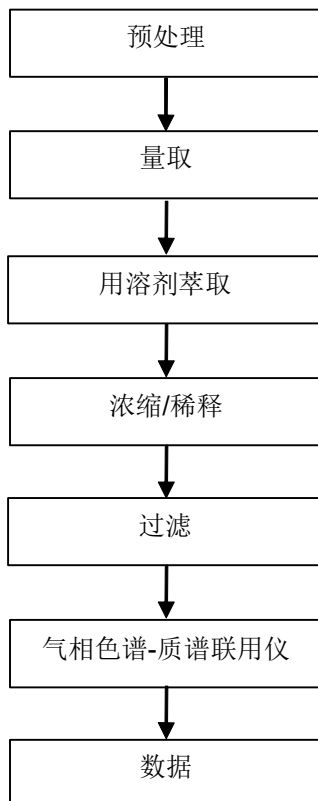
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附件

邻苯二甲酸酯检测流程图



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