

检测报告

客户信息

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传真 -
Email 865566424@qq.com
订单号 -
样品 废气(6)
项目 -

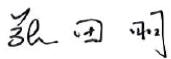
实验室信息

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报告编号 TJE20-02031 R0
SGS编号 000019341
报告日期 2020/11/03

备注

1.结果适用于采样样品。

报告批准人



张田明
报告编制



王琳琳
审核



窦铭超
批准人



SGS-CSTC Inspection & Testing Services (Tianjin) Co., Ltd.
Environment Laboratory

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Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

符号表/Legend

NA 样品未测试该参数/The sample was not analysed for this analyte

↑ 提高检出限/Detection limit raised

↓ 降低检出限/Detection limit lowered

ND 未检出/Not Detected



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| 分析指标 | 方法 | 单位 | 检出限 | 限值 | 实验室编号 | 20-02031.001 | 20-02031.002 | 20-02031.003 |
|---|------------|-------------------|--------|-------|---------------------------|---------------------------|---------------------------|--------------|
| | | | | | 检测类别 | 有组织 | 有组织 | 有组织 |
| | | | | | 样品描述 | - | - | - |
| 采样位置 | - | - | - | - | 焚烧炉1#废气排口 | 焚烧炉1#废气排口 | 焚烧炉1#废气排口 | 焚烧炉1#废气排口 |
| 采样时间 | - | - | - | - | 2020.10.22 10:08-11:08 | 2020.10.22 11:12-12:12 | 2020.10.22 12:17-13:17 | |
| 采样时间 (颗粒物) | - | - | - | - | 2020.10.22 13:20-14:20 | 2020.10.22 14:24-15:24 | 2020.10.22 15:28-16:28 | |
| 采样时间 (SO ₂ , NO _x , CO) | - | - | - | - | 2020.10.22 13:23-14:23 | 2020.10.22 14:27-15:27 | 2020.10.22 15:36-16:36 | |
| 烟道截面积 | - | m ² | - | - | 2.0106 | 2.0106 | 2.0106 | |
| 排气筒高度 | - | m | - | - | 80 | 80 | 80 | |
| 烟温 | GB/T 16157 | °C | - | - | 160 | 161 | 161 | |
| 烟气流速 | GB/T 16157 | m/s | - | - | 19.7 | 19.2 | 20.1 | |
| 含湿量 | GB/T 16157 | % | - | - | 19.5 | 20.0 | 20.7 | |
| 标干气量 | GB/T 16157 | m ³ /h | - | - | 7.25 X 10 ⁴ | 7.03 X 10 ⁴ | 7.26 X 10 ⁴ | |
| 静压 | GB/T 16157 | kPa | - | - | -0.20 | -0.19 | -0.20 | |
| 氧含量 | SEPA 2003 | % | - | - | 9.8 | 9.3 | 11.0 | |
| 铬 (排放浓度) | HJ 657 | µg/m ³ | 0.15 | - | 3.4 | 2.0 | 8.6 | |
| 铬 (折算浓度) | HJ 657 | µg/m ³ | - | - | 2.81 | 1.68 | 7.29 | |
| 铬 (排放速率) | HJ 657 | kg/h | - | - | 2.53×10 ⁻⁴ | 1.42×10 ⁻⁴ | 6.40×10 ⁻⁴ | |
| 铈 (排放浓度) | HJ 657 | µg/m ³ | 0.005 | - | <0.005 | <0.005 | <0.005 | |
| 铈 (折算浓度) | HJ 657 | µg/m ³ | - | - | <4.10×10 ⁻³ | <4.20×10 ⁻³ | <4.25×10 ⁻³ | |
| 铈 (排放速率) | HJ 657 | kg/h | - | - | <3.70×10 ⁻⁷ | <3.57×10 ⁻⁷ | <3.73×10 ⁻⁷ | |
| 铜 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | 0.3 | 0.5 | 0.1 | |
| 铜 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.254 | 0.381 | 0.0935 | |
| 铜 (排放速率) | HJ 657 | kg/h | - | - | 2.29×10 ⁻⁵ | 3.23×10 ⁻⁵ | 8.20×10 ⁻⁶ | |
| 锰 (排放浓度) | HJ 657 | µg/m ³ | 0.04 | - | 0.85 | 0.36 | 0.19 | |
| 锰 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.697 | 0.306 | 0.160 | |
| 锰 (排放速率) | HJ 657 | kg/h | - | - | 6.29×10 ⁻⁵ | 2.60×10 ⁻⁵ | 1.41×10 ⁻⁵ | |
| 铈 (排放浓度) | HJ 657 | µg/m ³ | 0.015 | - | 0.13 | 0.11 | 0.044 | |
| 铈 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.104 | 0.0939 | 0.0374 | |
| 铈 (排放速率) | HJ 657 | kg/h | - | - | 9.43×10 ⁻⁶ | 7.97×10 ⁻⁶ | 3.28×10 ⁻⁶ | |
| 砷 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | <0.1 | 0.4 | <0.1 | |
| 砷 (折算浓度) | HJ 657 | µg/m ³ | - | - | <0.082 | 0.317 | <0.085 | |
| 砷 (排放速率) | HJ 657 | kg/h | - | - | <7.41×10 ⁻⁶ | 2.69×10 ⁻⁵ | <7.46×10 ⁻⁶ | |
| 镉 (排放浓度) | HJ 657 | µg/m ³ | 0.005 | - | 0.037 | 0.029 | <5.00×10 ⁻³ | |
| 镉 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.0301 | 0.0243 | <4.25×10 ⁻³ | |
| 镉 (排放速率) | HJ 657 | kg/h | - | - | 2.71×10 ⁻⁶ | 2.06×10 ⁻⁶ | <3.73×10 ⁻⁷ | |
| 钴 (排放浓度) | HJ 657 | µg/m ³ | 0.005 | - | 0.058 | 0.034 | 0.019 | |
| 钴 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.0475 | 0.0285 | 0.0162 | |
| 钴 (排放速率) | HJ 657 | kg/h | - | - | 4.29×10 ⁻⁶ | 2.42×10 ⁻⁶ | 1.43×10 ⁻⁶ | |
| 铅 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | 0.4 | 0.5 | <0.1 | |
| 铅 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.342 | 0.448 | <0.085 | |
| 铅 (排放速率) | HJ 657 | kg/h | - | - | 3.09×10 ⁻⁵ | 3.81×10 ⁻⁵ | <7.46×10 ⁻⁶ | |
| 镍 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | 2.6 | 1.6 | 0.9 | |
| 镍 (折算浓度) | HJ 657 | µg/m ³ | - | - | 2.12 | 1.39 | 0.762 | |
| 镍 (排放速率) | HJ 657 | kg/h | - | - | 1.92×10 ⁻⁴ | 1.18×10 ⁻⁴ | 6.69×10 ⁻⁵ | |
| 汞 (排放浓度) | HJ 543 | mg/m ³ | 0.0025 | - | <0.0025 | <0.0025 | <0.0025 | |
| 汞 (折算浓度) | HJ 543 | mg/m ³ | - | ≤0.05 | <2.05×10 ⁻³ | <2.10×10 ⁻³ | <2.12×10 ⁻³ | |
| 汞 (排放速率) | HJ 543 | kg/h | - | - | <1.85×10 ⁻⁴ | <1.78×10 ⁻⁴ | <1.87×10 ⁻⁴ | |



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| 分析指标 | 方法 | 单位 | 检出限 | 限值 | 实验室编号 | | |
|------------|----------|-------------------|------|------|------------------------|------------------------|------------------------|
| | | | | | 检测类别 | 20-02031.001 | 20-02031.002 |
| | | | | | 有组织 | 有组织 | 有组织 |
| | | | | | - | - | - |
| | | | | | 样品描述 | | |
| 氯化氢(排放浓度) | HJ 549 | mg/m ³ | 0.07 | - | <0.07 | <0.07 | <0.07 |
| 氯化氢(折算浓度) | HJ 549 | mg/m ³ | - | ≤60 | <0.0574 | <0.0588 | <0.0595 |
| 氯化氢(排放速率) | HJ 549 | kg/h | - | - | <5.18×10 ⁻³ | <4.99×10 ⁻³ | <5.22×10 ⁻³ |
| 颗粒物(排放浓度) | HJ 836 | mg/m ³ | 1.0 | - | <1.0 | <1.0 | <1.0 |
| 颗粒物(折算浓度) | HJ 836 | mg/m ³ | - | ≤30 | <0.980 | <0.870 | <1.23 |
| 颗粒物(排放速率) | HJ 836 | kg/h | - | - | <0.0708 | <0.0692 | <0.0705 |
| 烟气黑度 | HJ/T 398 | grade | 1 | - | <1 | <1 | <1 |
| 一氧化碳(排放浓度) | HJ 973 | mg/m ³ | 3 | - | 11 | 11 | 6 |
| 一氧化碳(折算浓度) | HJ 973 | mg/m ³ | - | ≤100 | 11 | 10 | 7 |
| 一氧化碳(排放速率) | HJ 973 | kg/h | - | - | 0.772 | 0.756 | 0.416 |
| 氮氧化物(排放浓度) | HJ 693 | mg/m ³ | 3 | - | 98 | 97 | 86 |
| 氮氧化物(折算浓度) | HJ 693 | mg/m ³ | - | ≤300 | 96 | 85 | 106 |
| 氮氧化物(排放速率) | HJ 693 | kg/h | - | - | 6.93 | 6.74 | 6.03 |
| 二氧化硫(排放浓度) | HJ 57 | mg/m ³ | 3 | - | 12 | 8 | 14 |
| 二氧化硫(折算浓度) | HJ 57 | mg/m ³ | - | ≤100 | 12 | 7 | 17 |
| 二氧化硫(排放速率) | HJ 57 | kg/h | - | - | 0.831 | 0.586 | 0.980 |



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| 分析指标 | 方法 | 单位 | 检出限 | 限值 | 实验室编号 | 20-02031.004 | 20-02031.005 | 20-02031.006 |
|---|------------|-------------------|--------|-------|---------------------------|---------------------------|---------------------------|--------------|
| | | | | | 检测类别 | 有组织 | 有组织 | 有组织 |
| | | | | | 样品描述 | - | - | - |
| 采样位置 | - | - | - | - | 焚烧炉2#废气排口 | 焚烧炉2#废气排口 | 焚烧炉2#废气排口 | 焚烧炉2#废气排口 |
| 采样时间 | - | - | - | - | 2020.10.23 09:03-10:03 | 2020.10.23 10:43-11:43 | 2020.10.23 11:48-12:48 | |
| 采样时间 (颗粒物) | - | - | - | - | 2020.10.22 17:33-18:33 | 2020.10.22 18:39-19:39 | 2020.10.22 19:46-20:46 | |
| 采样时间 (SO ₂ , NO _x , CO) | - | - | - | - | 2020.10.22 17:35-18:35 | 2020.10.22 18:41-19:41 | 2020.10.22 19:53-20:53 | |
| 烟道截面积 | - | m ² | - | - | 2.0106 | 2.0106 | 2.0106 | |
| 排气筒高度 | - | m | - | - | 80 | 80 | 80 | |
| 烟温 | GB/T 16157 | °C | - | - | 149 | 149 | 147 | |
| 烟气流速 | GB/T 16157 | m/s | - | - | 16.0 | 16.0 | 16.0 | |
| 含湿量 | GB/T 16157 | % | - | - | 22.3 | 22.2 | 22.2 | |
| 标干气量 | GB/T 16157 | m ³ /h | - | - | 5.84 X 10 ⁴ | 5.87 X 10 ⁴ | 5.89 X 10 ⁴ | |
| 静压 | GB/T 16157 | kPa | - | - | -0.10 | -0.12 | -0.12 | |
| 氧含量 | SEPA 2003 | % | - | - | 10.2 | 9.8 | 10.0 | |
| 铬 (排放浓度) | HJ 657 | µg/m ³ | 0.15 | - | 3.5 | 11 | 12 | |
| 铬 (折算浓度) | HJ 657 | µg/m ³ | - | - | 3.19 | 8.32 | 10.7 | |
| 铬 (排放速率) | HJ 657 | kg/h | - | - | 1.95×10 ⁻⁴ | 6.13×10 ⁻⁴ | 7.03×10 ⁻⁴ | |
| 铈 (排放浓度) | HJ 657 | µg/m ³ | 0.005 | - | <0.005 | <0.005 | <0.005 | |
| 铈 (折算浓度) | HJ 657 | µg/m ³ | - | - | <4.50×10 ⁻³ | <3.95×10 ⁻³ | <4.40×10 ⁻³ | |
| 铈 (排放速率) | HJ 657 | kg/h | - | - | <2.75×10 ⁻⁷ | <2.91×10 ⁻⁷ | <2.89×10 ⁻⁷ | |
| 铜 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | 0.4 | 0.9 | 0.6 | |
| 铜 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.365 | 0.677 | 0.555 | |
| 铜 (排放速率) | HJ 657 | kg/h | - | - | 2.23×10 ⁻⁵ | 4.98×10 ⁻⁵ | 3.65×10 ⁻⁵ | |
| 锰 (排放浓度) | HJ 657 | µg/m ³ | 0.04 | - | 0.78 | 0.96 | 0.95 | |
| 锰 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.700 | 0.756 | 0.837 | |
| 锰 (排放速率) | HJ 657 | kg/h | - | - | 4.28×10 ⁻⁵ | 5.57×10 ⁻⁵ | 5.50×10 ⁻⁵ | |
| 铈 (排放浓度) | HJ 657 | µg/m ³ | 0.015 | - | 0.17 | 0.23 | 0.24 | |
| 铈 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.153 | 0.183 | 0.210 | |
| 铈 (排放速率) | HJ 657 | kg/h | - | - | 9.36×10 ⁻⁶ | 1.35×10 ⁻⁵ | 1.38×10 ⁻⁵ | |
| 砷 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | <0.1 | <0.1 | <0.1 | |
| 砷 (折算浓度) | HJ 657 | µg/m ³ | - | - | <0.09 | <0.079 | <0.088 | |
| 砷 (排放速率) | HJ 657 | kg/h | - | - | <5.50×10 ⁻⁶ | <5.82×10 ⁻⁶ | <5.79×10 ⁻⁶ | |
| 镉 (排放浓度) | HJ 657 | µg/m ³ | 0.005 | - | 0.048 | 0.075 | 0.065 | |
| 镉 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.0433 | 0.0592 | 0.0575 | |
| 镉 (排放速率) | HJ 657 | kg/h | - | - | 2.64×10 ⁻⁶ | 4.36×10 ⁻⁶ | 3.78×10 ⁻⁶ | |
| 钴 (排放浓度) | HJ 657 | µg/m ³ | 0.005 | - | 0.057 | 0.13 | 0.097 | |
| 钴 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.0515 | 0.0990 | 0.0856 | |
| 钴 (排放速率) | HJ 657 | kg/h | - | - | 3.14×10 ⁻⁶ | 7.29×10 ⁻⁶ | 5.63×10 ⁻⁶ | |
| 铅 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | 0.6 | 0.9 | 0.8 | |
| 铅 (折算浓度) | HJ 657 | µg/m ³ | - | - | 0.562 | 0.683 | 0.741 | |
| 铅 (排放速率) | HJ 657 | kg/h | - | - | 3.44×10 ⁻⁵ | 5.03×10 ⁻⁵ | 4.87×10 ⁻⁵ | |
| 镍 (排放浓度) | HJ 657 | µg/m ³ | 0.1 | - | 2.3 | 5.6 | 3.7 | |
| 镍 (折算浓度) | HJ 657 | µg/m ³ | - | - | 2.10 | 4.46 | 3.28 | |
| 镍 (排放速率) | HJ 657 | kg/h | - | - | 1.28×10 ⁻⁴ | 3.28×10 ⁻⁴ | 2.15×10 ⁻⁴ | |
| 汞 (排放浓度) | HJ 543 | mg/m ³ | 0.0025 | - | 0.0034 | 0.0054 | 0.0056 | |
| 汞 (折算浓度) | HJ 543 | mg/m ³ | - | ≤0.05 | 3.07×10 ⁻³ | 4.25×10 ⁻³ | 4.93×10 ⁻³ | |
| 汞 (排放速率) | HJ 543 | kg/h | - | - | 1.87×10 ⁻⁴ | 3.12×10 ⁻⁴ | 3.22×10 ⁻⁴ | |



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| 分析指标 | 方法 | 单位 | 检出限 | 限值 | 实验室编号 | 20-02031.004 | 20-02031.005 | 20-02031.006 |
|------------|----------|-------------------|------|------|-------|------------------------|------------------------|------------------------|
| | | | | | 检测类别 | 有组织 | 有组织 | 有组织 |
| | | | | | 样品描述 | - | - | - |
| 氯化氢(排放浓度) | HJ 549 | mg/m ³ | 0.07 | - | | <0.07 | <0.07 | <0.07 |
| 氯化氢(折算浓度) | HJ 549 | mg/m ³ | - | ≤60 | | <0.0630 | <0.0553 | <0.0616 |
| 氯化氢(排放速率) | HJ 549 | kg/h | - | - | | <3.85×10 ⁻³ | <4.07×10 ⁻³ | <4.05×10 ⁻³ |
| 颗粒物(排放浓度) | HJ 836 | mg/m ³ | 1.0 | - | | <1.0 | <1.0 | <1.0 |
| 颗粒物(折算浓度) | HJ 836 | mg/m ³ | - | ≤30 | | <0.943 | <1.01 | <0.926 |
| 颗粒物(排放速率) | HJ 836 | kg/h | - | - | | <0.0618 | <0.0592 | <0.0600 |
| 烟气黑度 | HJ/T 398 | grade | 1 | - | | <1 | <1 | <1 |
| 一氧化碳(排放浓度) | HJ 973 | mg/m ³ | 3 | - | | 4 | 11 | 15 |
| 一氧化碳(折算浓度) | HJ 973 | mg/m ³ | - | ≤100 | | 4 | 11 | 14 |
| 一氧化碳(排放速率) | HJ 973 | kg/h | - | - | | 0.262 | 0.641 | 0.886 |
| 氮氧化物(排放浓度) | HJ 693 | mg/m ³ | 3 | - | | 144 | 117 | 45 |
| 氮氧化物(折算浓度) | HJ 693 | mg/m ³ | - | ≤300 | | 136 | 119 | 42 |
| 氮氧化物(排放速率) | HJ 693 | kg/h | - | - | | 8.92 | 6.95 | 2.69 |
| 二氧化硫(排放浓度) | HJ 57 | mg/m ³ | 3 | - | | <3 | 21 | <3 |
| 二氧化硫(折算浓度) | HJ 57 | mg/m ³ | - | ≤100 | | <3 | 21 | <3 |
| 二氧化硫(排放速率) | HJ 57 | kg/h | - | - | | <0.186 | 1.24 | <0.180 |

备注：

采样地址：天津市蓟州区别山镇西九户村东北1000米。

排气筒高度由客户提供。

限值：GB18485 - 2014 《生活垃圾焚烧污染控制标准》表4。



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方法列表

GB/T 16157-1996 固定污染源排气中颗粒物测定与气态污染物采样方法
 SEPA 2003 《空气和废气监测分析方法》(第四版)国家环境保护总局(2003)
 HJ 657-2013 及修改单 空气和废气 颗粒物中铅等金属元素的测定 电感耦合等离子体质谱法
 HJ 543-2009 固定污染源废气 汞的测定 冷原子吸收分光光度法(暂行)
 HJ 549-2016 环境空气和废气 氯化氢的测定 离子色谱法
 HJ 836-2017 固定污染源废气 低浓度颗粒物的测定 重量法
 HJ/T 398-2007 固定污染源排放 烟气黑度的测定 林格曼烟气黑度图法
 HJ 973-2018 固定污染源废气 一氧化碳的测定 定电位电解法
 HJ 693-2014 固定污染源废气 氮氧化物的测定 定电位电解法
 HJ 57-2017 固定污染源废气 二氧化硫的测定 定电位电解法



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方法:采样仪器信息(Sampling equipment information)*

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|----------------|----------|--------|---------------|
| 低浓度自动烟尘烟气综合测试仪 | ZR-3260D | ENV559 | 3260D19058379 |
| 双路烟气采样器 | ZR-3710 | ENV592 | 371019053484 |

方法:GB/T 16157-1996

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|----------------|----------|--------|---------------|
| 低浓度自动烟尘烟气综合测试仪 | ZR-3260D | ENV559 | 3260D19058379 |

方法:SEPA 2003

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|----------------|----------|--------|---------------|
| 低浓度自动烟尘烟气综合测试仪 | ZR-3260D | ENV559 | 3260D19058379 |

方法:HJ 657-2013

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|-------------|-------------|------------|-------------|
| 电感耦合等离子体质谱仪 | NEXION 350X | CHEM-080-A | 85XN6101801 |

方法:HJ 543-2009

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|------|--------|------------|----------|
| 测汞仪 | DMA-80 | CHEM-015-C | 17032196 |

方法:HJ 549-2016

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|-------|-----------|-----------|----------|
| 离子色谱仪 | INTEGRION | CHEM-029C | 16070419 |

方法:HJ 836-2017

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|------|-------|------------|------------|
| 电子天平 | XS205 | CHEM-004-G | B118137264 |

方法:HJ/T 398-2007

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|------|---------|--------|------|
| 黑度板 | HM-LG30 | ENV586 | / |

方法:HJ 973-2018

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|----------------|----------|--------|---------------|
| 低浓度自动烟尘烟气综合测试仪 | ZR-3260D | ENV559 | 3260D19058379 |

方法:HJ 693-2014

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|----------------|----------|--------|---------------|
| 低浓度自动烟尘烟气综合测试仪 | ZR-3260D | ENV559 | 3260D19058379 |

方法:HJ 57-2017

| 仪器名称 | 型号 | 仪器编号 | 出厂序号 |
|----------------|----------|--------|---------------|
| 低浓度自动烟尘烟气综合测试仪 | ZR-3260D | ENV559 | 3260D19058379 |


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| 项目 样品编号 | 镉、铊及其化合物 | 锑、砷、铅、铬、钴、铜、锰、镍及其化合物 | 限值 | |
|-----------------|--------------------------------------|--------------------------------------|--|--|
| | 排放浓度 ($\mu\text{g}/\text{m}^3$) | 排放浓度 ($\mu\text{g}/\text{m}^3$) | 镉、铊及其化合物 ($\mu\text{g}/\text{m}^3$) | 锑、砷、铅、铬、钴、铜、锰、镍及其化合物 ($\mu\text{g}/\text{m}^3$) |
| TJE20-02031.001 | 0.0301 | 6.37 | 100 | 1000 |
| TJE20-02031.002 | 0.0243 | 4.64 | | |
| TJE20-02031.003 | 0 | 8.36 | | |
| TJE20-02031.004 | 0.0433 | 7.12 | | |
| TJE20-02031.005 | 0.0592 | 15.2 | | |
| TJE20-02031.006 | 0.0575 | 16.4 | | |

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