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# 检 测 报 告
# TEST REPORT

报 告 编 号:
REPORT NO.: 25201904736

样 品 名 称: 釉面砖
NAME OF SAMPLE: PORCELAIN TILES

委 托 单 位: 佛山市嘉欣华陶瓷有限公司
APPLICANT: FOSHAN KIVA CERAMICS CO.,LTD

检 验 日 期:
DATE OF TEST: 25/10/2021 – 07/11/2021 (dd/mm/yy)

国 家 建 筑 卫 生 陶 瓷 检 测 重 点 实 验 室
STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE
佛山出入境检验检疫局检验检疫综合技术中心
INSPECTION AND QUARANTINE COMPREHENSIVE TECHNOLOGY CENTRE
OF FOSHAN ENTRY-EXIT INSPECTION & QUARANTINE BUREAU

# 佛山出入境检验检疫局检验检疫综合技术中心

**INSPECTION AND QUARANTINE COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN ENTRY-EXIT INSPECTION & QUARANTINE BUREAU**

# 检测报告

**TEST REPORT**



| | | | |
|---|---|---|---|
| 样品名称<br>Name of sample | 釉面砖<br>PORCELAIN TILES | 名义尺寸<br>Nominal size (N) | 1200mmx600mm |
| 表面特性<br>Nature of the surface | 有釉<br>Glazed (GL) | 工作尺寸<br>Work size ($S_w$) | 1200mmx600mmx10.2mm |
| 类别<br>Group | B Ⅰa 类，磨边砖<br>Group B Ⅰa, rectified tiles | 样品描述<br>Description of Samples | 样品完好,适合测试<br>The samples are sound, intact and fit for test. |
| 样品标记<br>Mark of samples | — | 样品数量<br>Quantity of samples | 30 块<br>30 Pieces |
| 委托单位<br>Applicant | 佛山市嘉欣华陶瓷有限公司<br>FOSHAN KIVA CERAMICS CO.,LTD | 委托单位地址<br>Address of applicant | 佛山市三水区西南街道<br>左田民营开发区（F6）<br>(F6) SADA PRIVATE DEVELOPMENT AREA, SOUTHWEST OF RIVER STREET, SANSHUI DISTRICT,FOSHAN CITY, GUANGDONG,CHINA. |
| 委托单位电话<br>Telephone of applicant | 86-13927243664 | 委托单位传真<br>Fax of applicant | — |
| 样品来源<br>Source of Samples | 委托单位自送样品<br>Samples selected by applicant | 接样日期<br>Received on | 25/10/2021 |
| 检验依据<br>Test Standard | SASO ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking* Annex G Dry-pressed ceramic tiles with low water absorption $E$,≤ 0,5 % Group B Ⅰa | | |
| 检验结论<br>Conclusion of Test | 样品经检验,所检验项目的检验结果符合 SASO ISO 13006:2018 标准中附录 G 的规定。<br>The results conform to the requirement of Annex G of standard SASO ISO 13006:2018 with respect to the test items. | | |
| 检验单位盖章<br>Stamp of Test Unit | 日期：11/11/2021<br>Date: | 检验单位联系方式<br>Address of Test Unit | 地址：广东省佛山市禅城区魁奇一路澜石（国际）金属交易中心十八座二楼<br>Address : 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqiyi Road, Chancheng District, Foshan, Guangdong, China (528000)<br>电话（Tel）：86-757-83960558<br>86-757-83827991<br>传真（Fax）：86-757-83827971<br>邮箱（E-mail）：fsiqtc@163.com<br>网址（url）：http://www.fsiqtc.com/ |
| 声明<br>Notes | 1、我们已尽所知所能实施上述检验，不能因签发本报告而免除有关各方根据合同和法律所承担的责任和义务：<br>All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations.<br>2、未经本实验室书面许可，不得部分复制本报告；<br>This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory.<br>3、本报告仅是样品的检测结果。<br>The results in this report apply to the samples only. | | |

检验 Tested by 杨明多　审核 Inspected by 艾江伟　批准 Approved by 肖景江

| 委托单位声明<br>Remark of applicant |
| --- |
| **品牌 Brand:** KIVA<br>**生产单位：** 佛山市嘉欣华陶瓷有限公司<br>**Manufacturer:** FOSHAN KIVA CERAMICS CO.,LTD<br>**生产单位地址：** 佛山市三水区西南街道左田民营开发区（F6）<br>**Address of Manufacturer: (F6) SADA PRIVATE DEVELOPMENT AREA, SOUTHWEST OF RIVER STREET,SANSHUI DISTRICT,FOSHAN CITY, GUANGDONG,CHINA.** |

SASO ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking*

| 条款 Clause | 性能 Properties | 检验方法 Test Method | 要求 Requirements | | 检验结果 Results | 判定 Verdicts |
|---|---|---|---|---|---|---|
| 附录 G 表 G.1 Annex G Table G.1 | **尺寸和表面质量 Dimensions and surface quality** | | | | | |
| | **长度 Length** 每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation,of the average size for each tile (2 sides) from the work size | SASO ISO 10545-2/2016 | N≥15cm | ±0.3% | -0.03%~-0.02% | P |
| | | | | ±1.0mm | -0.4mm~-0.2mm | P |
| | **宽度 Width** 每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation,of the average size for each tile (2 sides) from the work size | SASO ISO 10545-2/2016 | N≥15cm | ±0.3% | +0.02%~+0.06% | P |
| | | | | ±1.0mm | +0.2mm~+0.4mm | P |
| | **厚度 Thickness** 每块砖厚度的平均值相对于工作尺寸的最大允许偏差 The deviation of the average thickness of each tile from the work size thickness | SASO ISO 10545-2/2016 | N≥15cm | ±5% | -0.6%~+0.4% | P |
| | | | | ±0.5mm | -0.1mm~0 | P |
| | **边直度 Straightness of sides** 相对于工作尺寸的最大允许偏差 The maximum deviation from straightness related to the corresponding work sizes | | | | | |
| | **长度** length | SASO ISO 10545-2/2016 | N≥15cm | ±0.3% | 0~+0.01% | P |
| | | | | ±0.8mm | 0~+0.1mm | P |
| | **宽度** Width | SASO ISO 10545-2/2016 | N≥15cm | ±0.3% | 0~+0.01% | P |
| | | | | ±0.8mm | 0~+0.1mm | P |
| | **直角度 Rectangularity** 相对于工作尺寸的最大允许偏差 The maximum deviation from Rectangularity related to the corresponding work sizes | | | | | |
| | **长度** length | SASO ISO 10545-2/2016 | N≥15cm | ±0.3% | -0.05%~-0.03% | P |
| | | | | ±1.5mm | -0.6mm~-0.4mm | P |
| | **宽度** Width | SASO ISO 10545-2/2016 | N≥15cm | ±0.3% | +0.04%~+0.06% | P |
| | | | | ±1.5mm | +0.2mm~+0.3mm | P |
| | **表面平整度：最大允许偏差 Surface flatness: The maximum deviation from flatness** | | | | | |
| | a)对于由工作尺寸计算的对角线的中心弯曲度 a) centre curvature, related to diagonal calculated from the work size; | SASO ISO 10545-2/2016 | N≥15cm | ±0.4% | -0.06%~-0.04% | P |
| | | | | ±1.8mm | -0.8mm~-0.5mm | P |

SASO ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking*

| 条款 Clause | 性能 Properties | 检验方法 Test Method | 要求 Requirements | | 检验结果 Results | 判定 Verdicts |
|---|---|---|---|---|---|---|
| 附录 G 表 G.1 Annex G Table G.1 | b)对于由工作尺寸计算的边弯曲度<br>b) edge curvature, related to the corresponding work sizes; | | | | | |
| | **长度**<br>length | SASO ISO 10545-2/2016 | N≥15cm | ±0.4% | +0.01%~+0.02% | P |
| | | | | ±1.8mm | +0.1mm~+0.2mm | P |
| | **宽度**<br>Width | SASO ISO 10545-2/2016 | N≥15cm | ±0.4% | -0.11%~-0.08% | P |
| | | | | ±1.8mm | -0.7mm~-0.4mm | P |
| | c)对于由于工作尺寸计算的对角线的翘曲度<br>c) warpage, related to diagonal calculated from the work size. | SASO ISO 10545-2/2016 | N≥15cm | ±0.4% | +0.02%~+0.03% | P |
| | | | | ±1.8mm | +0.3mm~+0.4mm | P |
| | **表面质量**<br>**Surface quality** | SASO ISO 10545-2/2016 | 至少有 95%的砖其主要区域无明显缺陷<br>A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m. | | 100% | P |
| | **物理性能**<br>**Physical properties** | | | | | |
| | **吸水率**<br>质量分数<br>**Water absorption**<br>Percent mass fraction | SASO ISO 10545-3/2018 | $E_v$≤0.5% | | 0.06% | P |
| | | | 单个值不大于 0.6%<br>Individual maximum 0.6% | | 0.05%~0.08% | P |
| | **破坏强度/N**<br>**Breaking strength, in N** | SASO ISO 10545-4/2016 | ≥1300 | | 2715 | P |
| | **断裂模数/(N/mm²)**<br>**Modulus of rupture, in N/mm²**<br>不适用于破坏强度≥ 3000N 的陶瓷砖<br>Not applicable to tiles with breaking strength ≥ 3000N | SASO ISO 10545-4/2016 | 平均值≥35<br>Minimum 35 | | 37.9 | P |
| | | | 单个值≥32<br>Individual minimum 32 | | 35.8~39.6 | P |
| | **抗冲击：**恢复系数<br>**Impact resistance:** Coefficient of restitution (COR) | SASO ISO 10545-5/2006 | 报告检验结果<br>Test method available | | 0.87 | — |
| | **耐磨性**<br>**Abrasion resistance**<br>用于地面的有釉砖的表面耐磨性<br>Resistance to surface abrasion of glazed tiles intended for use on floors | SASO ISO 10545-7/2007 | 报告耐磨级别<br>Report abrasion class | | 4 级<br>Class 4 | — |
| | | | 报告耐磨转数<br>Report cycles passed | | 2100 | — |
| | **线性热膨胀系数：**室温~100℃<br>**Coefficient of linear thermal expansion**: from ambient temperature to 100℃ | SASO ISO 10545-8/2016 | 报告检验结果<br>Test method available | | $6.5\times10^{-6}℃^{-1}$ | — |
| | **抗热震性**<br>**Thermal shock resistance** | SASO ISO 10545-9/2016 | 报告检验结果<br>Test method available | | 样品经试验，无炸裂或裂纹<br>Fully resistance | — |
| | **湿膨胀/(mm/m)**<br>**Moisture expansion, in mm/m** | SASO ISO 10545-10/2006 | 报告检验结果<br>Test method available | | <0.06 | — |

SASO ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking*

| 条款 Clause | 性能 Properties | 检验方法 Test Method | 要求 Requirements | 检验结果 Results | 判定 Verdicts |
|---|---|---|---|---|---|
| 附录 G 表 G.1 Annex G Table G.1 | **抗釉裂性：**有釉砖 **Crazing resistance:** glazed tiles | SASO ISO 10545-11/2007 | 应通过此项测试 Required | 样品经试验，无裂纹或剥落 Fully resistance | P |
| | **抗冻性 Frost resistance** | SASO ISO 10545-12/2007 | 报告检验结果 Test method available | 所有样品无裂纹或破损 Fully resistance | P |
| | **化学性能 Chemical properties** | | | | |
| | **耐污染性 Resistance to staining** | | | | |
| | a)轻油中的铬绿 a) Green staining agent in light oil | SASO ISO 10545-14/2016 | 不低于 3 级 Minimum Class 3 | 5 级 Class 5 | P |
| | b)轻油中的红色污染物 b) Red staining agent in light oil | SASO ISO 10545-14/2016 | 不低于 3 级 Minimum Class 3 | 5 级 Class 5 | P |
| | c) 13g/L 碘酒液 c) Iodine, 13g/L solution in alcohol | SASO ISO 10545-14/2016 | 不低于 3 级 Minimum Class 3 | 5 级 Class 5 | P |
| | d)橄榄油 d) Olive oil | SASO ISO 10545-14/2016 | 不低于 3 级 Minimum Class 3 | 5 级 Class 5 | P |
| | **耐化学腐蚀性 Resistance to chemicals** | | | | |
| | 耐家庭化学试剂和游泳池盐类 Resistance to household chemicals and swimming pool salts | | | | |
| | a) 家庭化学试剂：氯化铵溶液，100g/L a) Household chemicals: Ammonium chloride, 100g/L | SASO ISO 10545-13/2018 | 不低于 B Minimum B | A | P |
| | b) 游泳池盐类：次氯酸钠溶液，20mg/L b) Swimming pool salts: Sodium hypochlorite solution, 20mg/L | SASO ISO 10545-13/2018 | 不低于 B Minimum B | A | P |
| | 耐低浓度酸和碱 Resistance to low concentrations of acids and alkalis | | | | |
| | a) 3%盐酸溶液(v/v) a) Hydrochloric acid solution, 3% (v/v) | SASO ISO 10545-13/2018 | 制造商应声明等级 Manufacturer to state classification | LA | — |
| | b) 柠檬酸溶液，100g/L b) Citric acid solution, 100g/L | SASO ISO 10545-13/2018 | 制造商应声明等级 Manufacturer to state classification | LA | — |
| | c) 氢氧化钾溶液，30g/L c) Potassium hydroxide, 30g/L | SASO ISO 10545-13/2018 | 制造商应声明等级 Manufacturer to state classification | LA | — |
| | 耐高浓度酸和碱 Resistance to high concentrations of acids and alkalis | | | | |
| | a) 18%盐酸溶液(v/v) a) Hydrochloric acid solution, 18% (v/v) | SASO ISO 10545-13/2018 | 报告检验结果 Test method available | HA | — |
| | b) 5 %乳酸溶液(v/v) b) Lactic acid, 5 % (v/v) | SASO ISO 10545-13/2018 | 报告检验结果 Test method available | HA | — |
| | c) 氢氧化钾溶液，100g/L c) Potassium hydroxide, 100g/L | SASO ISO 10545-13/2018 | 报告检验结果 Test method available | HA | — |

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## INSPECTION AND QUARANTINE COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN ENTRY-EXIT INSPECTION & QUARANTINE BUREAU

# 检测报告

## TEST REPORT



SASO ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking*

| 条款 Clause | 性能 Properties | 检验方法 Test Method | 要求 Requirements | 检验结果 Results | 判定 Verdicts |
|---|---|---|---|---|---|
| 附录 G 表 G.1 Annex G Table G.1 | **铅镉溶出量 Lead and Cadmium release** | | | | |
| | a)铅溶出量/($mg/dm^2$) a) Lead release, in $mg/dm^2$ | SASO ISO 10545-15/2006 | 报告检验结果 Test method available | ＜0.01 | — |
| | b)镉溶出量/($mg/dm^2$) b) Cadmium release, in $mg/dm^2$ | SASO ISO 10545-15/2006 | 报告检验结果 Test method available | ＜0.002 | — |

用语说明 Possible test case verdicts

1. P(ass)：合格 *Test item does meet the requirement.*
2. F(ail)：不合格 *Test item does not meet the requirement.*
3. —：未进行判定 *Verdict was not carried out.*
4. N/A：不适用 *Test case does not apply to the test item.*

*** ***

报告结束 End of Test Report