CMA 230002349382

中国认可
国际互认
检测
TESTING
CNAS L1401

# 检 验 报 告

# Test Report

| | |
|---|---|
| Sample name<br>样品名称: | DDG(DIGITAL DECORATION AND GLAZING)<br>复刻釉砖 |
| Type/Model<br>型号规格: | 600mm×600mm×8.8mm |
| Client<br>委托单位: | GUANG DONG OVERLAND CERAMICS CO., LTD.<br>广东欧文莱陶瓷有限公司 |
| Manufacturer<br>生产单位: | GUANG DONG OVERLAND CERAMICS CO., LTD.<br>广东欧文莱陶瓷有限公司 |
| Test type<br>检验类别: | Commission Test<br>委托检验 |
| Date of issue<br>签发日期: | 2024-07-30<br>2024 年 07 月 30 日 |

佛 山 市 质 量 计 量 监 督 检 测 中 心

Foshan Supervision Testing Center of Quality and Metrology

国家陶瓷及水暖卫浴产品质量检验检测中心

National Center of Inspection and Testing for Ceramic Sanitary and Plumbing Fixture

(检验专用章)

扫码辨真伪

Foshan Supervision Testing Center of Quality and Metrology

National Center of Inspection and Testing for Ceramic Sanitary and Plumbing Fixture

# Test Report



| | | | |
|---|---|---|---|
| Sample name<br>样品名称<br>Type/Model,<br>型号、规格<br>Trade mark, Grade<br>商标、等级 | DDG(DIGITAL DECORATION AND GLAZING)<br>复刻釉砖<br>600mm×600mm×8.8mm<br>———/———<br>———/——— | Date of manufacture / Batch No.<br>生产日期或批号 | ———/——— |
| | | Sample No.<br>样品编号 | ——— |
| Client<br>委托单位 | GUANG DONG OVERLAND CERAMICS CO., LTD.<br>广东欧文莱陶瓷有限公司 | Test type<br>检验类别 | Commission Test<br>委托检验 |
| Client Address<br>委托单位地址 | Zuotian, Sanshui, Foshan Guangdong<br>佛山三水左田 | Sample Quantity / Method of Sample Receipt<br>样品数量/来样方式 | 4 CTNS/<br>4 箱<br>Provided by client<br>送样 |
| Manufacturer (Provided by client)<br>生产单位<br>（委托方提供） | GUANG DONG OVERLAND CERAMICS CO., LTD.<br>广东欧文莱陶瓷有限公司 | Receiving date<br>接样日期 | 2024-06-28 |
| Manufacturer address (Provided by client)<br>生产单位地址<br>（委托方提供） | Zuotian, Sanshui, Foshan Guangdong<br>佛山三水左田 | Sample Received by<br>接样人 | Deng Kuanchang<br>邓款嫦 |
| Sample status<br>样品特征及状态 | Pieces (Glazed)<br>块状（有釉） | Test Date<br>检验日期 | 2024-06-29～<br>2024-07-30 |
| Tested according to<br>检验依据 | *ISO 13006:2018 Ceramic tiles—Definitions, classification, characteristics and marking (Annex G Dry-pressed ceramic tiles with low water absorption Ev≤0.5 %Group BIa); GB6566-2010 Limit of radionuclides in building materials; GB 6566-2010《建筑材料放射性核素限量》; GB/T37798-2019 Evaluation of slip resistance of ceramic; GB/T 37798-2019《陶瓷砖防滑性等级评价》; ANSI A326.3-2021 American National Standard Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Materials* | | |
| Judgement Basis<br>判定依据 | *ISO 13006:2018 Ceramic tiles—Definitions, classification, characteristics and marking (Annex G Dry-pressed ceramic tiles with low water absorption Ev≤0.5 %Group BIa); GB6566-2010 Limit of radionuclides in building materials; GB 6566-2010《建筑材料放射性核素限量》* | | |
| Test conclusion<br>检验结论 | Except the test items No.13～No.23 are not verdict, the test results comply with the requirement of the standard ISO 13006:2018 Annex G and the type A requirement for the decorative materials of the standard GB 6566-2010, the testis passed.<br>经检验，第13～23项不作判定，其余项目符合ISO 13006:2018标准附录G的要求及GB 6566-2010标准中A类装饰装修材料的要求，本次委托检验合格。<br>2024-07-30<br>Any copy of test report is invalid without official test seal<br>复印报告未重验红色“检验专用章”无效 | | |
| Note<br>备注 | ——— | | |

Approved by：Checked by：Tested by：

Lab Add：No.2, Keji West Road, Shishan, Nanhai District, Foshan, Guangdong, China

扫码辨真伪

No. G24-WT6507E

Foshan Supervision Testing Center of Quality and Metrology

National Center of Inspection and Testing for Ceramic Sanitary and Plumbing Fixture

# Test Report



| 序号 No. | 检验项目 Test Items | 单位符号 Unit | 标准要求 Technical Requirements | | | 检验结果 Test Results | 判定 Verdict |
|---|---|---|---|---|---|---|---|
| 1 | 尺寸及偏差（磨边） Size and difference (rectified) | % | 边长 Length | 相对于工作尺寸的允许偏差 The deviation of the average size for each tile from the work size | ±0.3 | -0.03～-0.02 | 合格 Pass |
| | | mm | | | ±1.0 | -0.2～-0.1 | |
| | | % | 厚度 Thickness | 相对于工作尺寸的允许偏差 The deviation of the average thickness for each tile from the work size thickness | ±5 | -1.1～+1.1 | |
| | | mm | | | ±0.5 | -0.1～+0.1 | |
| 2 | 边直度（磨边） Straightness of sides (rectified) | % | 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 | | ±0.3 | -0.03～+0.04 | 合格 Pass |
| | | mm | | | ±0.8 | -0.19～+0.24 | |
| 3 | 直角度（磨边） Rectangularity (rectified) | % | 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 | | ±0.3 | -0.05～+0.05 | 合格 Pass |
| | | mm | | | ±1.5 | -0.29～+0.29 | |
| 4 | 表面平整度（磨边） Surface flatness (rectified) | % | 边弯曲度 Edge curvature | | ±0.4 | -0.04～+0.06 | 合格 Pass |
| | | mm | | | ±1.8 | -0.26～+0.38 | |
| | | % | 翘曲度 Warpage | | ±0.4 | -0.02～+0.04 | |
| | | mm | | | ±1.8 | -0.20～+0.34 | |
| | | % | 中心弯曲度 Center curvature | | ±0.4 | -0.03～+0.04 | |
| | | mm | | | ±1.8 | -0.24～+0.30 | |
| 5 | 表面质量 Surface quality | ——— | 至少95%的砖其主要区域无明显缺陷 A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles. | | | 符合 Conformed | 合格 Pass |
| 6 | 吸水率 Water absorption | % | 平均值≤0.5 单个值≤0.6 Average maximum 0.5 Individual maximum 0.6 | | | 0.06 0.04～0.07 | 合格 Pass |
| 7 | 破坏强度 Breaking strength | N | 当厚度≥7.5mm时，平均值≥1300 When the thickness≥7.5mm, the mean value shall not be less than 1300 | | | 2234 | 合格 Pass |
| 8 | 断裂模数 Modulus of rupture | MPa | 平均值≥35 单个值≥32 Average minimum 35 Individual minimum 32 | | | 54 50～56 | 合格 Pass |
| 9 | 抗釉裂性 Crazing resistance | ——— | 经试验应无釉裂 No crazing or peeling on the glazed surface after the crazing test | | | 符合 Conformed | 合格 Pass |
| 10 | 抗冻性 Frost resistance | ——— | 经试验应无裂纹或剥落 No crack or peeling after the frost test | | | 符合 Conformed | 合格 Pass |

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|---|---|---|---|---|---|---|
| 11 | 耐污染性<br>Resistance to staining | ——— | 不低于3级<br>Minimum class 3 | a)轻油中的铬绿<br>a) Green staining agent in light oil | 5级<br>Class5 | 合格<br>Pass |
| | | | | b) 13g/L碘酒<br>b) Iodine, 13g/L solution in alcohol | 5级<br>Class5 | |
| | | | | c)橄榄油<br>c) Olive oil | 5级<br>Class5 | |
| 12 | 耐家庭化学试剂和游泳池盐类<br>Resistance to household chemicals& swimming pool salts | ——— | 不低于B级<br>Minimum B | a)家庭化学试剂：氯化氨溶液，100g/ L<br>a) Household chemicals: Ammonium chloride, 100g/L | A级<br>Class A | 合格<br>Pass |
| | | | | b)游泳池盐类：次氯酸钠溶液，20mg/L<br>b) Swimming pool salts: Sodium hypochlorite solution, 20mg/L | A级<br>Class A | |
| 13 | 抗热震性<br>Thermal shock resistance | ——— | 经试验后报告检验结果<br>Report the test result after test | 无裂纹<br>No crack | | ——— |
| 14 | 耐低浓度酸和碱<br>Resistance to low concentrations of acids and alkalis | ——— | 经检验后分级<br>Manufacturer to state classification | a) 3%盐酸溶液(v/v)<br>a)Hydrochloric acid solution, 3% (v/v) | LA级<br>Class LA | ——— |
| | | | | b)柠檬酸溶液，100g/ L<br>b) Citric acid solution, 100g/L | LA级<br>Class LA | |
| | | | | c)氢氧化钾溶液，30g/L<br>c) Potassium hydroxide, 30g/L | LA级<br>Class LA | |
| 15 | 耐高浓度酸和碱<br>Resistance to high concentrations of acids and alkalis | ——— | 经检验后分级<br>Manufacturer to state classification | a) 18%盐酸溶液(v/v)<br>a)Hydrochloric acid solution, 18% (v/v) | HA级<br>Class HA | ——— |
| | | | | b) 5%乳酸溶液(v/v)<br>b) Lactic acid, 5 % (v/v) | HA级<br>Class HA | |
| | | | | c)氢氧化钾溶液，100g/L<br>c)Potassium hydroxide, 100g/L | HA级<br>Class HA | |
| 16 | 耐磨性<br>Resistance to surface abrasion | ——— | 经试验后报告耐磨转数和等级<br>Report abrasion class and cycles passed | 1500转<br>1500 cycles | 3级<br>Class 3 | ——— |

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|---|---|---|---|---|---|
| 17 | 热膨胀系数 Coefficient of linear thermal expansion | $℃^{-1}$ | 经试验后报告陶瓷线性热膨胀系数 Report the coefficient of linear thermal expansion | $6.3\times10^{-6}$ | —— |
| 18 | 湿膨胀 Moisture expansion | % | 经试验后报告瓷砖湿膨胀 Report the test result after test | ≤0.01 | —— |
| 19 | 抗冲击恢复系数 Impact resistance | —— | 经试验后报告陶瓷砖的抗冲击恢复系数 Report the average resiliency coefficient | 0.85 | —— |
| 20 | 铅溶出量 Lead release | $mg/dm^2$ | 经试验后报告有釉陶瓷砖釉面铅溶出量 Report the release | ≤0.02 | —— |
| | | mg/L | | ≤0.5 | |
| 21 | 镉溶出量 Cadmium release | $mg/dm^2$ | 经试验后报告有釉陶瓷砖釉面镉溶出量 Report the release | ≤0.002 | —— |
| | | mg/L | | ≤0.05 | |
| 22 | 斜坡法（穿鞋、抹油）防滑等级 Shod ramp test | —— | R13 / α ≥35° / 高 High | 5° / —— / 低 Low | —— |
| | | | R12 / 27°≤α<35° / 高 High | | |
| | | | R11 / 19°≤α<27° / 中 Medium | | |
| | | | R10 / 10°≤α<19° / 中 Medium | | |
| | | | R9 / 6°≤α<10° / 低 Low | | |
| | | | —— / α<6° / 低 Low | | |
| 23 | 动摩擦系数 DCOF | —— | —— | 湿法 Wet / 0.64 | —— |
| 24 | 内照射指数 $I_{Ra}$ Internal exposure index $I_{Ra}$ (Decorative materials) | —— | A 类装饰装修材料：$I_{Ra}\leq1.0$ Decorative materials Type A: $I_{Ra}\leq1.0$ | 0.5 | A 类 Type A |
| | | | B 类装饰装修材料：IRa≤1.3 Decorative materials Type B: $I_{Ra}\leq1.3$ | | |
| | 外照射指数 $I_r$ External exposure index $I_r$ (Decorative materials) | —— | A 类装饰装修材料：Ir≤1.3 Decorative materials TypeA: $I_r\leq1.3$ | 0.9 | |
| | | | B 类装饰装修材料：Ir≤1.9 Decorative materials Type B: $I_r\leq1.9$ | | |
| | | | C 类装饰装修材料：Ir≤2.8 Decorative materials Type C: $I_r\leq2.8$ | | |

（The end）

# Declaration

1. Report without signature of inspector, verifier and approver and "official testing stamp" is invalid.
2. Report is invalid in case it is scribbled or altered, incomplete pages, without across-page stamp, duplicate without "official testing stamp". Report can not be partial copied without written approval of the institute.
3. Commission test report applies only for the samples received. Test results can not be improper propagated without written approval.
4. In case of any disagreement, applicant shall make a request in written form within 15 days on receiving the report; otherwise test result is taken as no objection.
5. The cover and declaration page are integral parts of the test report.
6. Data and result of test report without CMA mark are only used for scientific research, teaching or internal quality control.
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Customer Satisfaction Survey