

Pingxiang Baitian New Materials Co.,LTD

萍乡柏田新材料有限公司

Certificate Of Analysis

样品名称 Name of sample	0.4-0.6mm zirconia bead (Y-TZP) 钇稳定氧化锆珠	样品编号 Mark of Sample	M2401181401-02
委托单位 Applicant	Pingxiang Baitian New Material Co.,Ltd 萍乡柏田新材料有限公司	样品数量 Quantity of Sample	1 袋 3,105kg
客户信息 Customer Info	略	实验环境条件 Lab Environment	25°C
样品描述 Shape of Sample	Sphere	收样日期 Received Date	2024/01/18
检测项目 Testing Category	见下表	检测日期 Test Date	2024/01/19-01/21
检测标准 Test Standard	JC/T 2136-2012	检测类别 Type Inspection	自主检测 Self Test

**检测 20 组样品 After measurement of 20 samples.

**铝珠:800g、Al₂O₃:200g、水: 400ml、行星磨研磨 6 小时 After 6 hours in planetary mill(Alumina Media:800g、Al₂O₃:200g、Water: 400ml)。

检测结果: (Results of Inspection):

检测内容 Attribute	说明 Spec	检定结果 Analysis
珠子尺寸 Bead Size	最小 Min	0.4mm
	最大 Max	0.6mm
纯度分析 Typical Purity Data (%)	ZrO ₂	≥94.6%
	Y ₂ O ₃	≤5.20%
	Al ₂ O ₃	≤0.50%
	Fe ₂ O ₃	≤0.01%
	MgO	≤0.01%
	TiO ₂	≤0.01%
	Na ₂ O	≤0.1%
密度 Density (g/cm ³)	≥6.0	6.03
堆积密度 Bulk Density (g/cm ³)	≥3.6	3.70
抗弯强度 flexural strength (Mpa)	≥900	1050
KIC MNm-3/2	8	9
抗压强度 Compressive strength (Mpa)	≥7500	7500
压碎强度 Crush Strength (牛顿 Newton)	≥1200	1974
莫氏硬度 Mohs Hardness	≥8.5	9
磨损率 Wear Rate (ppm/hr)	≤4	2.6
磨损率 Wear Rate (%)	≤0.30	0.26

声明: 1.检测结果仅对来样负责, 样品保留至报出结果后 15 天。The results in this report apply to the samples only.

2.检测报告盖章有效, 报告部分复印无效。The report is valid with the inspection organization stamp.

3.若对检测结果有异议, 请于收到结果之日起 15 天内向本公司提出。Telling us in 15 days since you receive the report when you have any question with the test results.

合格

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