



山东科恩表面功能材料有限公司

CrownRe Innovative Materials Corp.

## 氧化锆滴珠 CY3

### CrownRe

已经成功掌握了高纯纳米材料滴定法生产工艺,专门用于生产氧化锆微珠材料。这一过程中,我们采用了自主生产的水热合成 6nm 高纯超细氧化锆作为核心原材料,确保了产品的卓越品质;

相较于传统的滚球法生产工艺,我们创新采用的全新滴定法所生产的氧化锆微珠展现出了显著的优势。其气孔率大幅降低,密度显著提升,为用户带来了更加优越的使用体验;

### 形貌



### 产品规格及主要参数

| 产品规格                   | CY3-010                            | CY3-020   | CY3-030   | CY3-034   | CY3-040   | CY3-065   |
|------------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| 成分%                    | ZrO <sub>2</sub> +HfO <sub>2</sub> | 95.0±0.3  |           |           |           |           |
|                        | Y <sub>2</sub> O <sub>3</sub>      | 4.8±0.2   |           |           |           |           |
| 直径 φ mm                | 0.10                               | 0.20      | 0.30      | 0.34      | 0.40      | 0.65      |
| 规格范围 mm                | 0.08~0.12                          | 0.18~0.22 | 0.28~0.32 | 0.32~0.36 | 0.37~0.43 | 0.60~0.70 |
| 堆积密度 g/cm <sup>3</sup> | 3.61                               | 3.63      | 3.70      | 3.70      | 3.70      | 3.70      |
| 密度 g/cm <sup>3</sup>   | 6.03                               | 6.03      | 6.04      | 6.04      | 6.04      | 6.04      |
| 硬度 HV                  | ≥1350                              | ≥1350     | ≥1350     | ≥1350     | ≥1350     | ≥1300     |
| 压碎强度 N                 | ≥10                                | ≥40       | ≥130      | ≥150      | ≥200      | ≥400      |
| 磨耗 ppm/h               | ≤0.50                              | ≤0.50     | ≤0.50     | ≤0.50     | ≤0.50     | ≤0.50     |

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## Zirconium Oxide Drop Beads CY3

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successfully mastered the production process utilizing high-purity nanomaterials via a titration method, specifically tailored for the manufacture of zirconia microbeads. In this process, we employ self-produced, hydrothermally synthesized 6nm high-purity ultrafine zirconia as the core raw material, ensuring exceptional product quality.

Compared to the traditional ball-rolling production method, our innovative new titration method for producing zirconia microbeads demonstrates remarkable advantages. It significantly reduces porosity and substantially enhances density, offering users a superior usage experience.

### Appearance



### Product Specifications and Main Parameters

| Product Specification            | CY3-010                            | CY3-020   | CY3-030   | CY3-034   | CY3-040   | CY3-065   |
|----------------------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Composition%                     | ZrO <sub>2</sub> +HfO <sub>2</sub> | 95.0±0.3  |           |           |           |           |
|                                  | Y <sub>2</sub> O <sub>3</sub>      | 4.8±0.2   |           |           |           |           |
| Diameter φ mm                    | 0.10                               | 0.20      | 0.30      | 0.34      | 0.40      | 0.65      |
| Size range mm                    | 0.08~0.12                          | 0.18~0.22 | 0.28~0.32 | 0.32~0.36 | 0.37~0.43 | 0.60~0.70 |
| Packed density g/cm <sup>3</sup> | 3.61                               | 3.63      | 3.70      | 3.70      | 3.70      | 3.70      |
| Density g/cm <sup>3</sup>        | 6.03                               | 6.03      | 6.04      | 6.04      | 6.04      | 6.04      |
| Hardness HV                      | ≥1350                              | ≥1350     | ≥1350     | ≥1350     | ≥1350     | ≥1300     |
| Crushing strength N              | ≥10                                | ≥40       | ≥130      | ≥150      | ≥200      | ≥400      |
| Wear ppm/h                       | ≤0.50                              | ≤0.50     | ≤0.50     | ≤0.50     | ≤0.50     | ≤0.50     |

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