萍乡市荣建环保化工填料有限公司

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中国 · 江西

萍乡市荣建环保化工填料有限公司

Ping xiang Rong jian environmental protection chemical packing Co.,LTD.

- Saving Energy Connect Us World And Future
- Located in Pingxiang City
  — was famous as the "Hometown of Tower Packing."
  With over 15 years of industry experience in Manufacturing & Exporting.

Ceramic Grinding Media Series

荣建环保化工填料有限公司
Rongjian Environmental Protection Chemical Packing Co., Ltd

About Rongjian

萍萍乡荣建环保化工填料有限公司位于江西省萍乡市——中国著名的“化工填料之乡”。公司专业从事陶瓷研磨介质和化工填料产品的研发与生产。

凭借先进的生产设备、经验丰富的技术团队和严格的质量控制体系，我们的产品广泛应用于矿业、陶瓷、颜料、涂料、化工、抛光和研磨等领域。

主要产品包括氧化铝研磨球、氧化锆研磨介质及其他耐磨陶瓷产品，为全球研磨作业提供高效、长寿命的解决方案。

Pingxiang Rongjian Environmental Protection Chemical Packing Co., Ltd. is located in Pingxiang, Jiangxi Province, China — well known as the “Hometown of Chemical Packing”. We specialize in the production of ceramic grinding media and chemical packing materials.

With advanced manufacturing equipment, experienced technical teams, and a strict quality control system, our products are widely used in mining, ceramics, pigments, coatings, chemical processing, polishing and grinding applications.

Our main products include alumina grinding balls, zirconia grinding media, and other wear-resistant ceramic products, providing high efficiency and long service life for grinding operations worldwide.

We have a professional production factory




PINGXIANG RONGJIAN

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陶瓷磨介系列

Ceramic Grinding Media Series

陶瓷磨介系列

CERAMIC GRINDING MEDIA SERIES

FACTORY SUPPLIER

ISO 9001:2015
ISO 1401:2015
ISO 4501:2018

High-purity alumina beads (spheres)

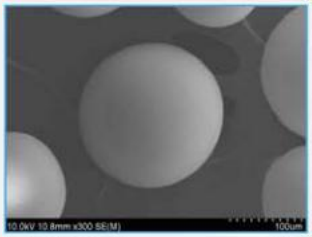
These beads are made from 4N5 high-purity alumina powder, which undergoes ultra-fine grinding to achieve nano-scale particle size, followed by rolling forming and high-temperature sintering. They feature high purity, high strength, and low wear resistance. During grinding, they are not prone to chipping or clogging grinding equipment, and are compatible with various grinding setups. With high purity and low abrasion (no contamination of feedstock elements during grinding), they are particularly suitable for grinding and dispersing high-purity alumina, luminescent materials, transparent ceramics, single crystals, diaphragms, and other powders.

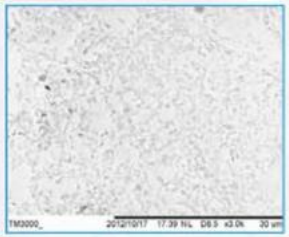
外观 Appearance	白色均匀球体White uniform spheres
材质 Material	4N Al_2O_3
尺寸范围 Size Range	0.1 – 30 mm (custom sizes available)
晶相 Crystal Phase	α
比重Specific Gravity	3.85 – 3.95
堆比重Bulk Density	≥2.3
莫氏硬度Mohs Hardness	9
带料磨耗Wear Loss	<3 (ton/kg)

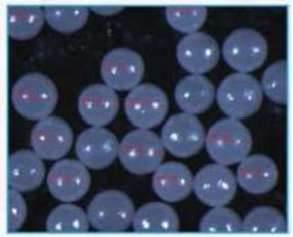
Other Composition Analysis (ppm)

元素Element	Na	K	Si	Fe	Mg	Ga
含量Content	8	4	10	8	3	3

显微分析 Microscopic Analysis







产品图片 Product Images

荣建环保化工填料有限公司
Rongjian Environmental Protection Chemical Packing Co., Ltd

Y-TZP Beads

Y-TZP beads contain approximately 95% zirconia, therefore they are commonly referred to as 95 Zirconia Beads or Pure Zirconia Grinding Beads.They are produced from 3Y yttria-stabilized tetragonal zirconia powder prepared by the hydrothermal process, followed by nano-scale grinding, spray drying granulation, precision forming and high-temperature sintering.The product features high hardness, excellent strength, low wear rate and high sphericity, making it suitable for various grinding equipment.

It is widely used in industries such as lithium batteries, ceramic inks, thermal transfer inks, non-metallic minerals, agrochemicals, electronic ceramics, magnetic materials, titanium dioxide, pharmaceuticals, pigments, dyes, inks and specialty chemicals, especially suitable for ultra-fine grinding and dispersion of high-viscosity materials.

Main Technical Parameters			
Chemical Composition	Content	Physical Properties	Specifications
ZrO_2	95%±0.2	比重Specific Gravity	≥6.0
Y_2O_3	5%±0.2	堆积比重Bulk Density	≥3.7
		压碎强度 Crushing Strength	>1.5KN(02mm)
		维氏硬度Vickers Hardness	>1250
		球形度Sphericity	0.98(Xmin/Xmax)
		自磨耗Self-wear Rate	<0.6(ppm/h)
		抗冲击损耗Impact Wear Rate	<0.05%/h

Common Size Specifications (mm)	
00.08-0.12	00.15-0.2
00.2-0.3	00.3-0.4
00.4-0.6	00.8-1.0
01.2-1.4	01.4-1.6
01.8-2.0	02.2-2.5
03±0.2	05±0.2
010±0.2	020±0.2
Custom sizes available upon request	

Zirconia-Alumina Composite Beads (ADZ Beads)

Al_2O_3-toughened ZrO_2 (ADZ) ceramic is an important ZTC material, occupying a significant position in modern industry and science and technology. ADZ beads are fabricated by mixing industrial α-Al_2O_3 and ZrO_2 (Y_2O_3) powder in a specific proportion, followed by ultra-fine grinding, spray drying for powder preparation, forming and sintering. They share similar properties with Y-TZP beads but are more cost-effective, making them compatible with various grinding equipment.

Mainly used in lithium batteries, ceramic inks, thermal transfer inks, non-metallic minerals, pesticides, electronic ceramics, magnetic materials, titanium dioxide, pharmaceutical products, pigments, dyes, inks, specialty chemical industries and other fields.

Main Technical Parameters			
Chemical Composition	Content	Physical Properties	Specifications
ZrO_2	80%	Specific Gravity	≥5.3
Y_2O_3	1%	Bulk Density	≥3.3
Al_2O_3	19%	Crushing Strength	>1.5KN(02mm)
		Vickers Hardness	>1300
		Sphericity	0.98(Xmin/Xmax)
		Self-wear Rate	<0.6(ppm/h)
		Impact Wear Rate	<0.05%/h

Common Size Specifications (mm)	
00.2～0.3	00.3~0.4
00.4～0.6	00.8~1.0
01.2~1.4	01.4~1.6
01.8～2.0	02.2~2.5
03±0.2	05±0.2
010±0.2	020±0.2
030±0.2	040±0.2
Custom sizes available upon request	

Zircon Silicate Beads

Zirconium silicate beads are manufactured by a conventional high-temperature ceramic sintering process, using ultra-fine raw material grinding (d50 ≤ 0.8 μm) and optimized formulations. The performance of the sintered zirconium silicate beads is comparable to that of fused zirconium silicate beads. The crystal phase mainly consists of zircon, ZrO_2 and a small amount of glass phase, featuring fine grain structure and high strength.

Widely used for the grinding and dispersion of materials such as titanium dioxide (TiO_2), calcium carbonate, zirconium silicate, paints and inks.

Main Technical Parameters			
Chemical Composition	Content	Physical Properties	Specifications
ZrO_2	65%	Specific Gravity	≥4.2
Y_2O_3	30%	Bulk Density	≥2.5
CaO+MgO	3%	Crushing Strength	>1.2KN(82mm)
Others	2%	Vickers Hardness	>1000
		Sphericity	0.98(Xmin/Xmax)
		Self-wear Rate	<0.8(ppm/h)
		Impact Wear Rate	<0.05%/h

Common Size Specifications (mm)	
00.2～0.3	00.3~0.4
00.4～0.6	00.6~0.8
00.8~1.0	01.0~1.2
01.2~1.4	01.4～1.6
01.8～2.0	02.0～2.5
02.5～3.0	05±0.2
08±0.2	013±0.2
Custom sizes available upon request	

Cerium Stabilized Zirconia Beads

Cerium stabilized zirconia beads feature a tetragonal microcrystalline structure with a fine, uniform and dense microstructure. They offer excellent wear resistance and fracture toughness, together with high hardness and high density. Their density is the highest among zirconia grinding media, enabling higher impact energy in grinding equipment and improving grinding efficiency. They are especially suitable for grinding and dispersing materials with high solid content, high viscosity and high hardness.

Widely used for ultra-fine grinding and dispersion in industries such as non-metallic minerals, paper making, calcium carbonate, paints and coatings, inks, electronic materials, lithium battery materials, magnetic materials, textile dyes and pharmaceuticals.

Main Technical Parameters			
Chemical Composition	**Content**	**Physical Properties**	**Specifications**
ZrO_2	83-87%	Specific Gravity	≥6.2
CeO_2	9-13%	Bulk Density	≥3.8
Others	2%	Crushing Strength	>1.5KN(02mm)
		Vickers Hardness	>1150
		Sphericity	0.97(Xmin/Xmax)
		Self-wear Rate	<0.6(ppm/h)
		Impact Wear Rate	<0.05%/h

Common Size Specifications (mm)	
00.2～0.3	00.3~0.4
00.4～0.6	00.6～0.8
00.8~1.0	01.0～1.2
01.2～1.4	01.4～1.6
01.8～2.0	02.0~2.5
02.5-3.0	05±0.2
Custom sizes available upon request	

95% Microcrystalline Alumina Grinding Media

95% microcrystalline alumina grinding media features moderate density, high strength, good acid and alkali resistance, low wear loss and high cost performance, making it one of the most widely used ceramic grinding media. It is suitable for various grinding equipment such as sand mills, stirring mills, batch ball mills, continuous ball mills and grinding pots.

It is mainly used for the grinding and dispersion of alumina, kaolin, calcium carbonate, quartz, zirconium silicate and metal ores such as gold, silver, nickel, zinc and lead, and is widely applied in industries including ceramics, glass, enamel, pigments, chemicals, mining and cement.

Main Technical Parameters			
Chemical Composition	**Content**	**Physical Properties**	**Specifications**
Al_2O_3	95%	Specific Gravity	≥3.65
SiO2	3%	Bulk Density	≥2.3
CaO+Mg0	1%	Crushing Strength	>1.5KN(82mm)
Others	1%	Vickers Hardness	>1750
		Sphericity	0.99(Xmin/Xmax)
		Self-wear Rate	<0.6(ppm/h)
		Impact Wear Rate	<0.05%/h

Common Size Specifications (mm)	
00.2～0.3	00.3~0.4
00.4～0.6	00.6～0.8
00.8~1.0	01.0～1.2
01.2～1.4	01.4～1.6
01.8～2.0	02.0~2.5
05±0.2	010±0.3
020±0.5	030±0.5
Custom sizes available upon request