

质量是对客户最好的诚意

Quality is the best sincerity to customers

三鼎晟新材料(深圳)有限公司

3X CERAMIC PARTS CO.,LTD

地址:深圳市光明区马田街道马山头社区第五工业区86栋A102

Address: A102, Building 86, Fifth Industrial Zone, Mashantou Community, Matian Street, Guangming District, Shenzhen

邮编(Postal code):518107

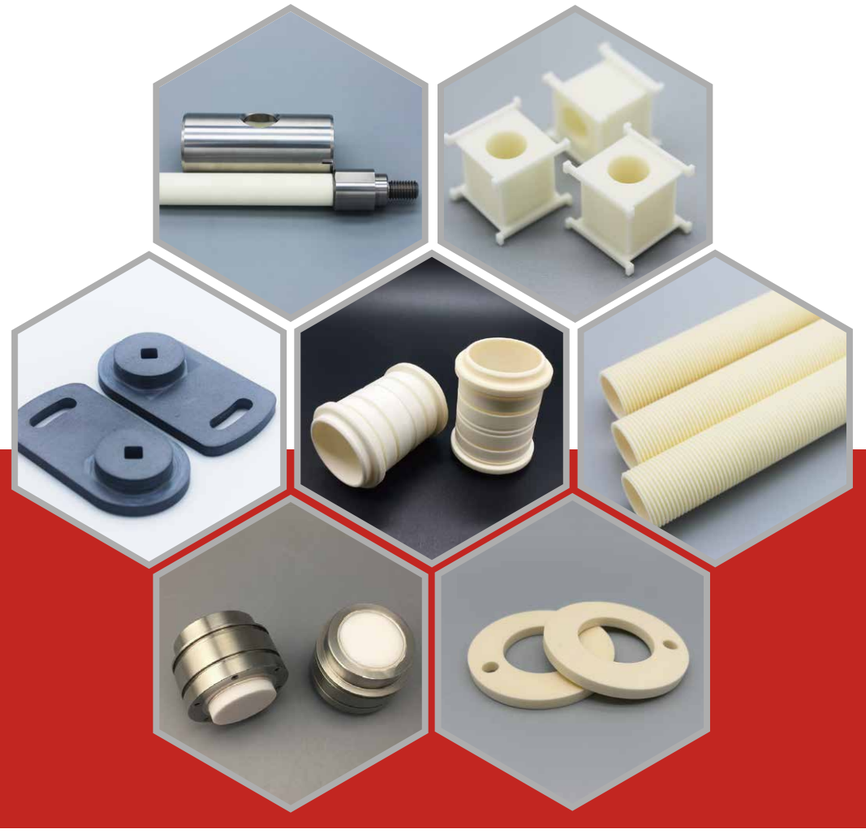
电话(Tel):0086 75527156186/0086 15988537579(肖女士)/0086 18902857031(刘先生)

网址(Website):www.3xtaoci(中国)/www.3xceramicparts.com(International)

邮箱(Mail box):肖女士admin@3xceramicparts.com

阿里巴巴网站(Alibaba Webside):www.3xceramicparts.en.libaba.com

3X Ceramic Parts



三鼎晟新材料(深圳)有限公司

3X CERAMIC PARTS CO.,LTD

先进陶瓷部件与五金配件的生产商&供应商

Manufacturer & supplier of advanced ceramic parts and hardware accessories

中国 · 深圳

SHENZHEN · CHINA

公司简介 Company Crofile

工厂实力 Plant Strength

三鼎晟科技成立于2018年，总部位于深圳市，占地6000平方米，是一家集研发、生产为一体的高精度技术陶瓷材料部件供应商。我们拥有先进的生产设备、精湛的工艺技术和严格的质量控制体系，确保每一件产品的精度都能达到微米（μ）级。三鼎晟专注于为客户提供高质量、高性能的陶瓷产品，致力于成为国内外领先的高精度陶瓷部件制造商。

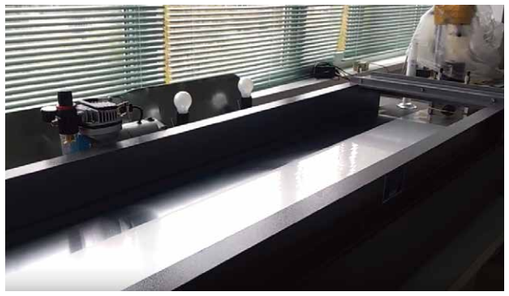
我们的客户群体广泛覆盖多个重要领域，包括能源、航天航空、机械、汽车、电子和化工等行业提供高精度、高可靠性的陶瓷部件，满足这些行业对陶瓷材料部件的多样化需求。我们始终坚持“质量第一、客户至上”的经营理念，注重与客户的沟通和合作，致力于提供满足客户需求的产品和服务。

Founded in 2018, 3X is headquartered in Shenzhen, covering an area of 6,000 square meters. It is a supplier of high-precision technical ceramic material components integrating research and developmentand production. We have advanced production equipment, exquisite technology and strict quality control system to ensure that the accuracy of each product can reach the micron (μ) level. 3x ceramic parts focuses on providing customers with high-quality, high-performance ceramic products, and is committed to becoming a leading manufacturer of high-precision ceramic parts at home and abroad.

Our customer base covers a wide range of important sectors, including energy, aerospace, machinery, automotive, electronics and chemical industries to provide high-precision, high-reliability ceramic components to meet the diverse needs of these industries for ceramic material components. We always adhere to the "quality first, customer first" business philosophy, pay attention to communication and cooperation with customers, committed to providing products and services to meet customer needs.

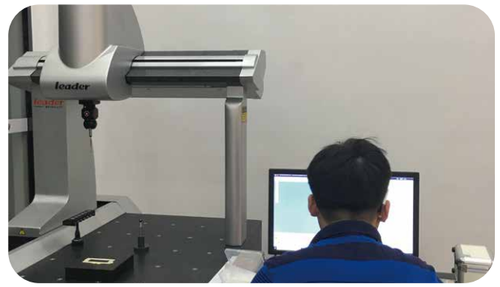
生产设备 Production Equipment

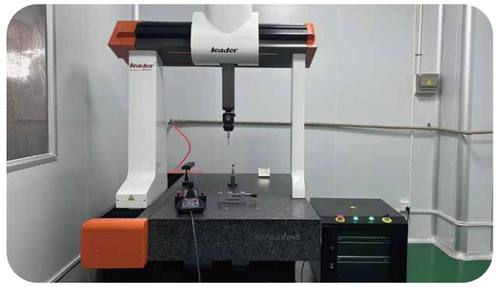


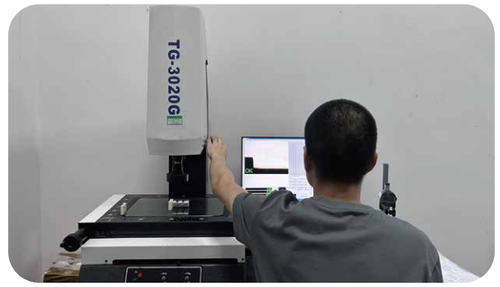



检测设备 Testing Equipment









我们的团队 Our Team









公司荣誉 Company Honor



COC证书



SGS证书



MSDS证书



FTA证书



ISO证书



CTI证书

主打产品 Main Product

陶瓷注塑件 Ceramic Injection Molded Parts






陶瓷柱塞 Ceramic Plunger





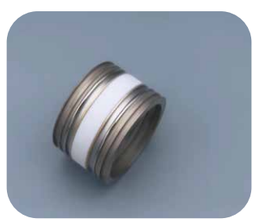

陶瓷泵阀 Ceramic Pump






陶瓷金属封接件 Ceramic to Cetal Assemblies






质量是对客户最好的诚意
Quality is the best sincerity to customers

质量是对客户最好的诚意
Quality is the best sincerity to customers

产品展示 Product Display

氧化铝陶瓷 Alumina Ceramic

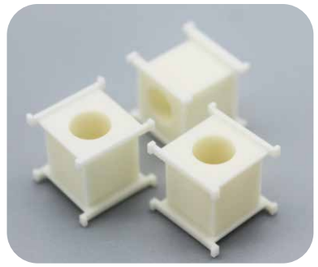
产品特性 Product characteristics

1. 氧化铝陶瓷具有优异的热稳定性，这意味着它广泛应用于耐高温至关重要的领域。
2. 氧化铝是一种电绝缘材料。
3. 氧化铝不溶于水，仅微溶于强酸和强碱溶液。
4. 氧化铝也是一种良好的电绝缘材料。

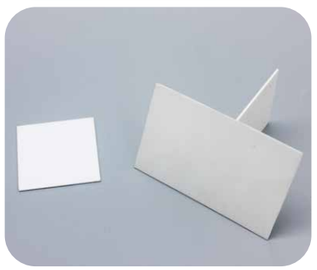
1. Alumina ceramoic has excellent thermal stability,which means that it is widely used in areas where resistance to high temperatures is essential .
2. Alumina is an electrically insulating meterial.
3. Alumina is insoluble in water and only slightly solub le in strong acid and alkaline solutions.
4. Alumina is also a good electrically insulating meterial.

应用领域 Application

- 电子设备 Electronic Equipment
- 光学和激光技术 Optical and Laser Technology
- 化工行业 Chemical Industry
- 石油行业 Oil Industry
- 半导体 Semiconductor
- 机械工程 Mechanical Engineering
- 医疗器械 Medical Device
- 新能源 New Energy

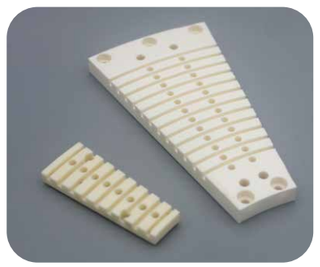
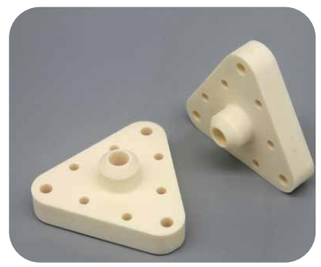







材料数据表 Material Datesheet

性能Properties		单位 Units	95氧化铝 95% Alumina	99氧化铝 99% Alumina	995氧化铝 99.5% Alumina
机械性能 Mechanical	密度 Density	gm/cc	3. 65	3. 8	3. 89
	吸水率 Porosity	%	0	0	0
	弯曲强度 Flexural Strength	Mpa	345	375	379
	抗压强度 Compressive Strength	Mpa	2100	2500	2600
	弹性模量 Elastic Modulus	Gpa	300	350	375
	泊松比 Poisson's Ratio	/	0. 21	0. 22	0. 22
	硬度 Hardness	kg/mm2	1100	1400	1440
	断裂韧性 Fracture Toughness KIC	Mpa *m $^{1/2}$	3. 5	4	4
热学性能 Thermal	导热 Heat Conductivity	W/ m*k	25	30	35
	热膨胀系数 Coefficient of Thermal Expansion	10^{-6}/K	8. 2	8. 2	8. 4
	热比 Specific Heat	j/kg*K	880	880	880
	抗热震 Thermal Shock Resistance	° C	250	200	200
	最高使用温度 Max UseTemperature	° C	1700	1700	1750
电学性能 Electrical	介电强度 Dielectric Strength	ac-kv/mm	8. 3	8. 7	8. 7
	介电常数 Dielectric Constant	/	9	9. 6	9. 8
	介电损耗 Loss Tangent	/	0. 0011	0. 0002	0. 0002
	体积电阻 Volume Resistivity	ohm•cm	>10^{14}	>10^{14}	>10^{14}




产品展示 Product Display

氧化锆陶瓷 Zirconia Ceramic

产品特性 Product characteristics

1. 抗化学性能:具有较强的耐酸碱性。
2. 韧性高，不易断裂，硬度高，密度高，不易损，耐久性强。
3. 耐热性能:可在高温下保持机械强度，可在高温条件下使用。
4. 表面光洁度好，表面更光滑光滑。损系数小，具有良好的自润滑功能，
5. 表面美观，颜色可选，是装饰配件的好材料

1. Chemical resistance: strong acid and alkali resistance.
2. High toughness, not easy to break, high hardness, high density, not vulnerable, strong durability
3. Heat resistance: It can maintain mechanical strength at high temperatures and can be used under high temperature conditions.
4. Good surface finish, smoother surface. Small loss coefficient, with good self-lubrication function,
5. Beautiful surface, color optional, is a good material for decorative accessories

应用领域 Application

- 精密铸造 Precision Casting
- 航空航天 Aerospace
- 电池材料 Battery Material
- 冶金 Metallurgy
- 柱塞泵 Plunger Pump
- 自动焊接 Automatic Welding
- 3C电子 3C Electron
- 智能穿戴 Smart Wear



材料数据表 Material Datesheet

性能 Properties		单位 Units	Zirconia (Y-TZP) 钇稳定氧化锆	Zirconia (Mg-PSZ) 镁稳定氧化锆
机械性能 Mechanical	密度 Density	gm/cc	6	5.5
	吸水率 Porosity	%	0	0
	弯曲强度 Flexural Strength	Mpa	1200	900
	抗压强度 Compressive Strength	Mpa	2500	1700
	弹性模量 Elastic Modulus	Gpa	200	200
	泊松比 Poisson's Ratio	/	0.23	0.23
	硬度 Hardness	kg/mm2	1300	1100
	断裂韧性 Fracture Toughness KIC	Mpa $*m^{1/2}$	13	11
热学性能 Thermal	导热 Heat Conductivity	W/ m*k	2	2
	热膨胀系数 Coefficient of Thermal Expansion	10^{-6}/K	10.3	10.2
	热比 Specific Heat	j/kg*K	400	400
	抗热震 Thermal Shock Resistance	°C	350	350
	最高使用温度 Max UseTemperature	°C	1500	500
电学性能 Electrical	介电强度 Dielectric Strength	ac-kv/mm	9	9.4
	介电常数 Dielectric Constant	/	29	28
	介电损耗 Loss Tangent	/	0.001	0.001
	体积电阻 Volume Resistivity	ohm•cm	$>10^{10}$	$>10^{10}$



质量是对客户最好的诚意

产品展示 Product Display

氮化硅陶瓷 Silicon Nitride Ceramic

产品特性 Product characteristics

氮化硅陶瓷，具有耐高温、高强度、高韧性、高硬度、抗蠕变、耐氧化以及耐磨损等优异性能的同时，还具备良好的抗热震性与介电性能、高热导率以及良好的高频电磁波传输性能，优异的综合性能使之已广泛用作航空航天等领域的复杂结构件。

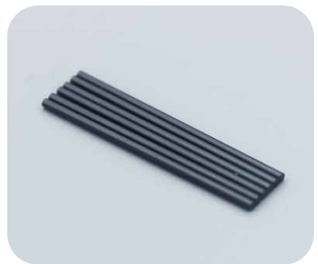
Silicon nitride ceramics, with high temperature resistance, high strength, high toughness, high hardness, creep resistance, oxidation resistance and wear resistance and other excellent properties, but also has good thermal shock resistance and dielectric properties, high thermal conductivity and good high-frequency electromagnetic wave transmission performance, excellent comprehensive performance has made it widely used in aerospace and other fields of complex structural parts.

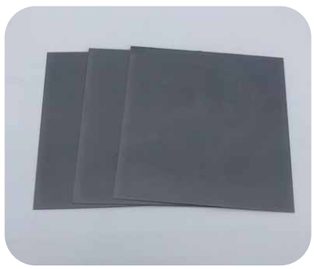
应用领域 Application

- 电子制造 Electronic Manufacturing
- 航空航天 Aerospace
- 电池材料 Battery Material
- 新能源 New Energy
- 光电领域 Photoelectric Field
- 机械工程 Mechanical Engineering
- 工业易损件 Industrial Wearing Parts
- 发动机零件 Engine Parts











材料数据表 Material Datesheet

性能 Properties		单位 Units	Silicone Nitride 氮化硅
Mechanical 机械性能	Density 密度	gm/cc	3.2
	Porosity 吸水率	%	0
	Flexural Strength 弯曲强度	Mpa	830
	Compressive Strength 抗压强度	Mpa	2500
	Elastic Modulus 弹性模量	Gpa	310
	Poisson's Ratio 泊松比	/	0.27
	Hardness 硬度	kg/mm2	1580
	Fracture Toughness KIC 断裂韧性	Mpa *m $^{1/2}$	6.1
Thermal 热学性能	Heat Conductivity 导热	W/ m*k	30
	Coefficient of Thermal Expansion 热膨胀系数	10^{-6}/K	3.3
	Specific Heat 热比	j/kg*K	/
	Thermal Shock Resistance 抗热震	°C	/
	Max UseTemperature 最高使用温度	°C	1400
Electrical 电学性能	Dielectric Strength 介电强度	ac-kv/mm	/
	Dielectric Constant 介电常数	/	8
	Loss Tangent 介电损耗	/	/
	Volume Resistivity 体积电阻	ohm•cm	>10^{14}








产品展示 Product Display

碳化硅陶瓷 Silicon Carbide Ceramic

产品特性 Product characteristics

碳化硅作为一种重要的陶瓷材料，具有低密度、高强度、优异的抗热震性、高硬度和耐磨性、优异的耐化学性、低热膨胀和高导热性等特性。这些特性使得碳化硅在多个领域中得到广泛应用，包括高温环境、化学工业、机械工程等。碳化硅的独特特性为各种应用提供了高性能和可靠性的解决方案。

As an important ceramic material, silicon carbide has the characteristics of low density, high strength, excellent thermal shock resistance, high hardness and wear resistance, excellent chemical resistance, low thermal expansion and high thermal conductivity. These characteristics make silicon carbide widely used in many fields, including high temperature environment, chemical industry, mechanical engineering and so on. The unique characteristics of silicon carbide provide high performance and reliable solutions for a variety of applications.

应用领域 Application

- 信息电子 Information Electronics
- 航空航天 Aerospace
- 空间技术 Space Technology
- 新能源 New Energy
- 半导体 Semiconductor
- 机械工程 Mechanical Engineering
- 光学应用 Optical Application
- 加热与热交换工业 Heating and heat exchange industry











材料数据表 Material Datesheet

性能Properties		单位Units	碳化硅Silicone Carbide
机械性能 Mechanical	密度 Density	gm/cc	3.12
	吸水率 Porosity	%	0
	弯曲强度 Flexural Strength	Mpa	390
	抗压强度 Compressive Strength	Mpa	1800
	弹性模量 Elastic Modulus	Gpa	440
	泊松比 Poisson's Ratio	/	0.17
	硬度 Hardness	kg/mm2	2800
	断裂韧性 Fracture Toughness KIC	Mpa $*m^{1/2}$	3.9
热学性能 Thermal	导热 Heat Conductivity	W/ m*k	120
	热膨胀系数 Coefficient of Thermal Expansion	10^{-6}/K	3
	热比 Specific Heat	j/kg*K	/
	抗热震 Thermal Shock Resistance	°C	230-260
	最高使用温度 Max UseTemperature	°C	1550
电学性能 Electrical	介电强度 Dielectric Strength	ac-kv/mm	/
	介电常数 Dielectric Constant	/	9.66~10.03
	介电损耗 Loss Tangent	/	/
	体积电阻 Volume Resistivity	ohm•cm	10^2-10^6








产品展示 Product Display

氮化铝陶瓷 Aluminum nitride ceramic

产品特性 Product characteristics

氮化铝陶瓷以其卓越的性能在多个领域占据重要地位。它具备高导热性、低热膨胀系数，确保了在高温环境下的稳定性和可靠性。同时，其高硬度、优良的化学稳定性和绝缘性能，使其成为电子封装、航空航天、汽车制造等领域的理想材料。氮化铝陶瓷的这些特性不仅提升了产品的性能，也拓宽了其应用范围，展现了广阔的市场前景和巨大的发展潜力。

Aluminum nitride ceramics occupy an important position in many fields because of their excellent properties. Its high thermal conductivity and low coefficient of thermal expansion ensure stability and reliability in high temperature environments. At the same time, its high hardness, excellent chemical stability and insulation properties make it an ideal material for electronic packaging, aerospace, automotive manufacturing and other fields. These characteristics of aluminum nitride ceramics not only improve the performance of the product, but also broaden its application range, showing a broad market prospect and great development potential.

应用领域 Application

- 汽车工业 Automobile Industry
- 航空航天 Aerospace
- 化工领域 Chemical Industry
- 新能源 New Energy
- 微波通信 Microwave Communication
- 生物医学 Biomedical Science
- 光电领域 Photoelectric Field
- 加热与热交换工业 Heating and heat exchange industry











材料数据表 Material Datesheet

性能Properties		单位Units	Aluminum Nitride 氮化铝
机械性能 Mechanical	密度 Density	gm/cc	3.34
	吸水率 Porosity	%	0
	弯曲强度 Flexural Strength	Mpa	>350
	抗压强度 Compressive Strength	Mpa	2100
	弹性模量 Elastic Modulus	Gpa	>330
	泊松比 Poisson's Ratio	/	0.24
	硬度 Hardness	kg/mm2	1100
	断裂韧性 Fracture Toughness KIC	Mpa $*m^{1/2}$	2.6
热学性能 Thermal	导热 Heat Conductivity	W/ m*k	170-180
	热膨胀系数 Coefficient of Thermal Expansion	10^{-6}/K	4.5
	热比 Specific Heat	j/kg*K	740
	抗热震 Thermal Shock Resistance	°C	/
	最高使用温度 Max UseTemperature	°C	/
电学性能 Electrical	介电强度 Dielectric Strength	ac-kv/mm	42-44.53
	介电常数 Dielectric Constant	/	10.1-10.6
	介电损耗 Loss Tangent	/	0.0003
	体积电阻 Volume Resistivity	ohm•cm	$>10^{14}$








产品展示 Product Display

可加工陶瓷 Machinable Ceramic

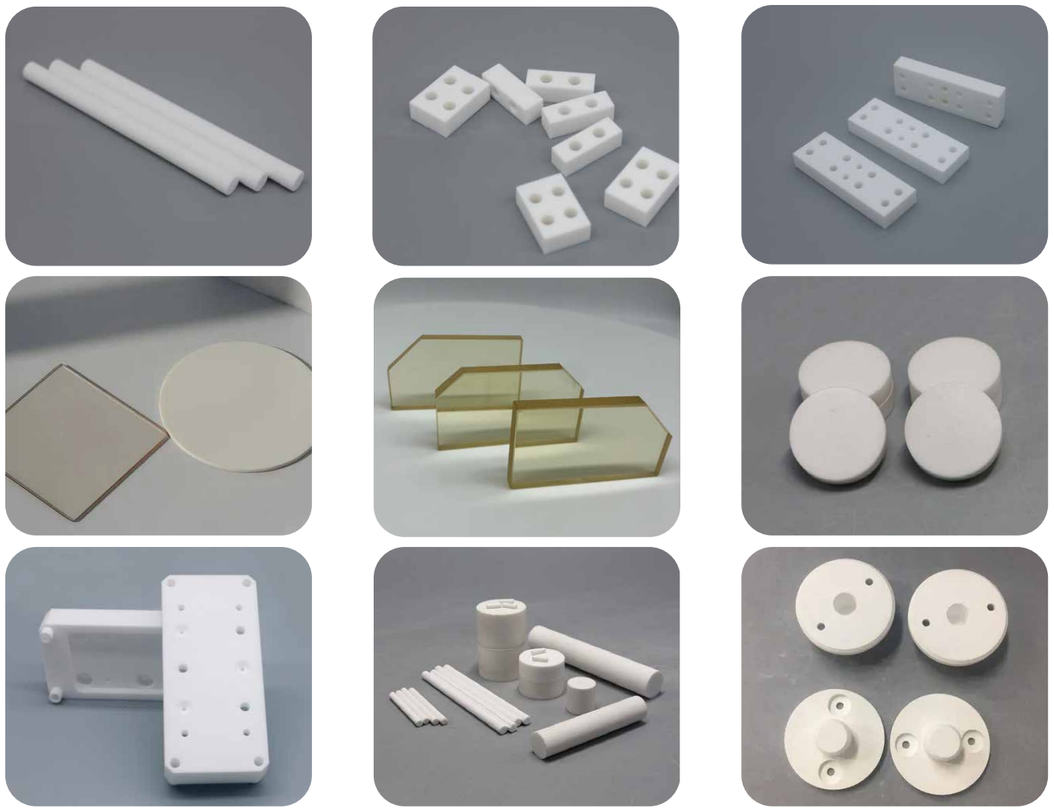
产品特性 Product characteristics

可加工玻璃陶瓷具有高强度、高硬度、耐腐蚀性、良好加工性和热稳定性等特性。它结合了玻璃和陶瓷的优点，不仅具有良好的透光性和化学稳定性，还具备优异的机械和热性能。这种材料无放射性，颜色多样，适用于建筑、电子、化工等领域，展现出广泛的应用前景。

Machinable glass ceramics have the characteristics of high strength, high hardness, corrosion resistance, good machinability and thermal stability. It combines the advantages of glass and ceramics, not only has good light transmission and chemical stability, but also has excellent mechanical and thermal properties. This material is non-radioactive, diverse colors, suitable for construction, electronics, chemical and other fields, showing a wide range of application prospects.

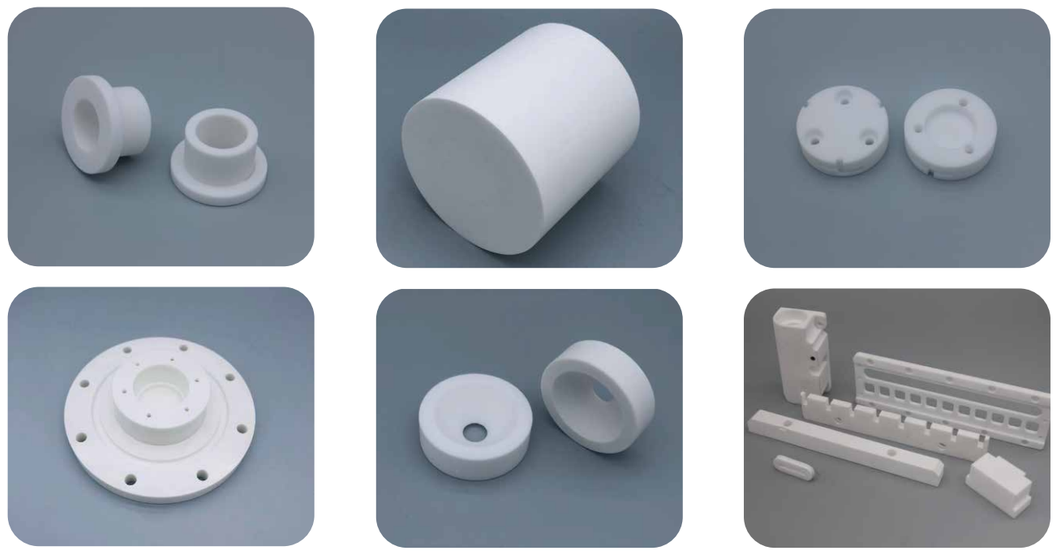
应用领域 Application

- 信息电子 Electronic Manufacturing
- 航空航天 Aerospace
- 医疗设备 Medical Equipment
- 精密仪器 Precision Instrument
- 半导体 Semiconductor
- 汽车行业 Automobile Industry
- 光电领域 Photoelectric Field
- 核工业 Nuclear Industry



材料数据表 Material Datesheet

性能 Properties		单位 Units	Can process glass ceramics 可加工微晶玻璃陶瓷
机械性能 Mechanical	密度 Density	gm/cc	2.48
	吸水率 Porosity	%	0.069
	弯曲强度 Flexural Strength	Mpa	108
	抗压强度 Compressive Strength	Mpa	508
	弹性模量 Elastic Modulus	Gpa	65
	泊松比 Poisson's Ratio	/	0.25
	硬度 Hardness	kg/mm2	800
	断裂韧性 Fracture Toughness KIC	Mpa *m $^{1/2}$	10
热学性能 Thermal	导热 Heat Conductivity	W/ m*k	1.71
	热膨胀系数 Coefficient of Thermal Expansion	10^{-6}/K	7.2
	热比 Specific Heat	j/kg*K	350
	抗热震 Thermal Shock Resistance	°C	250
	最高使用温度 Max UseTemperature	°C	1200
电学性能 Electrical	介电强度 Dielectric Strength	ac-kv/mm	40
	介电常数 Dielectric Constant	/	6~7
	介电损耗 Loss Tangent	/	0.001~0.004
	体积电阻 Volume Resistivity	ohm•cm	>10^{10}



合作客户 Cooperative Customers

国内客户 Domestic Customers

大族激光 HAN'S LASER

WAHWAY

哈爾濱工業大學 Harbin Institute of Technology

上海交通大學 SHANGHAI JIAO TONG UNIVERSITY

CCTC 三环集团

中国科学技术大学

CHINA 艾热中国

exact S·C 捷佳伟创 SHENZHEN S.C

LEAD 先导

国外客户 Foreign Customers

optris infrared thermometers

Bloomenergy

hp invent

MANCHESTER 1824 The University of Manchester

FAGOR PROFESSIONAL

Ford Deixe um Ford surpreender você.

arçelik

NOKIA

ABB power-one® Changing the Shape of Power

产品优势 Advantages of Products

精选高品质原材料，确保产品 性能卓越，稳定可靠。
Select high quality raw materials to ensure excellent product performance, stability and reliability.

高精度的加工技术，产品精度可达微米级别，满足高精度需求。
High precision processing technology, product accuracy up to micron level, to meet the needs of high precision.

提供灵活的打样和精加工服务，快速响应客户需求，满足个性化定制。
Provide flexible proofing and finishing services, quickly respond to customer needs, to meet personalized customization.

作为源头厂家，拥有完善的生产线和先进设备，确保产品质量和交货期。
As the source manufacturer, we have perfect production lines and advanced equipment to ensure product quality and delivery time.

专业的服务团队提供一站式服务，为客户量身定制专业方案，全程无忧。
Professional service team to provide one-stop service, tailored professional solutions for customers, the whole process without worry.

