



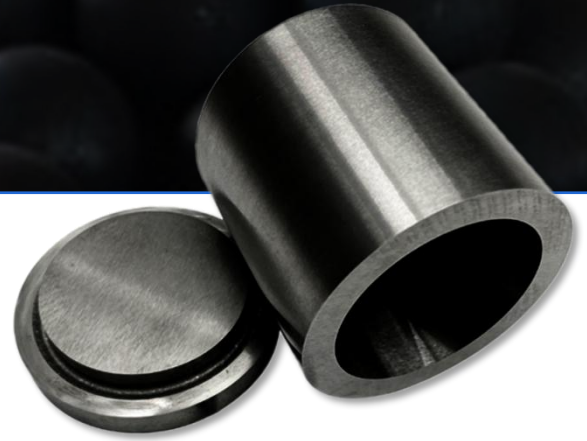
Silicon Nitride Ball

Silicon Nitride Grinding Ball Series

氮化硅磨介球系列

■ Features 特点

- High hardness
高硬度
- Wear resistance and corrosion resistance
耐磨损、耐腐蚀
- Antimagnetic electricity
抗磁电
- Solve the pollution problem of other grinding media materials on the product, ensuring purity and quality
解决其他磨介材料对于产品的污染问题，保证纯度和质量
- Long service life and operating costs
使用寿命长，运行成本



■ Application 应用

Equipment such as ball mills, stirring mills, and vibration mills used in laboratories and production lines.

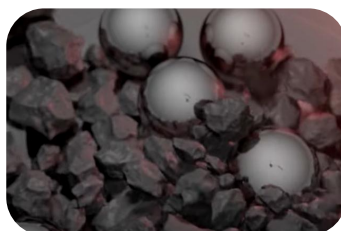
实验室和生产线用的球磨、搅拌磨、振动磨等设备。

Fields such as crushing, grinding, or dispersing advanced ceramic powder materials, magnetic materials, non-metallic mineral materials, and pyrotechnic materials.

粉碎、研磨或分散先进陶瓷粉体材料、磁性材料非金属矿物材料、火材料等领域。

Ultra fine dispersion of high-end materials, especially in working conditions with extremely high requirements for product purity and fineness.

高端材料的超细分散，尤其是对产品纯度和细度要求极高的工况。



Silicon Nitride Precision Ceramic Ball Series

氮化硅精密陶瓷球系列

■ Overview 概述

Precision ceramic balls have excellent properties such as high strength, good wear resistance, corrosion resistance, high temperature resistance, electrical insulation, and non magnetic properties that metals do not possess. They are ideal products for use in the bearing industry, chemical industry, and valve industry.

精密陶瓷球具有高强度、耐磨性好、耐腐蚀、耐高温、电绝缘、不导磁等一系列金属不具备的优异性能,是轴承行业和化工、阀门领域理想的使用产品。

■ Features 特点

- High hardness, good resistance, and long service life
高硬度、耐磨损,使用寿命长
- High temperature resistance, maintaining high strength and hardness even at a high temperature of 1200°C
耐高温, 在1200°C高温下仍能具有很高的强度、硬度
- Low density and high densification
低密度、高致密性
- Self-lubricating never rusting
自润滑、永不生锈
- Low coefficient of thermal expansion, high thermal shock resistance
热膨胀系数低, 具有较高的抗热冲击性能
- Anticorrosion of acid and alk
耐酸碱腐蚀



- Nonmagnetic and electrical insulation
无磁电绝缘
- At high temperatures, it does not adhere to the metal and hardly reacts
高温下与金属熔体不粘连，几乎不发生反应

■ Standard for Precision Ceramic Balls 精密陶瓷球标准

Level 级别	Roundness Standard (ΔRSw max.) 真圆度标准	Diameter Tolerance (VDws) 直径公差	Surface Roughness (Ra max.) 表面粗糙度	Tolerance Standard for Diameter Within A Batch (VDwl max.) 批次内直径公差标准
G3	0.08	0.08	0.010	0.13
G5	0.13	0.13	0.014	0.25
G10	0.25	0.25	0.020	0.50
G16	0.40	0.40	0.025	0.80
G20	0.50	0.50	0.032	0.80
G24	0.60	0.60	0.040	1.20
G28	0.70	0.70	0.05	1.4
G40	1.00	1.00	0.06	2.00
G60	1.50	1.50	0.08	3.00
G100	2.50	2.50	0.10	5.00
G200	5.00	5.00	0.15	10.00



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