## ▲概述：

耐诺氮化硅珠NanorSiN采用一级超细的氮化硅为基料，经领先的工艺挤出成坯，热压烧结成相。细腻的氮化硅金相赋予珠子优异的耐压强度、抗氧化、耐蚀性和耐磨性，为超硬材料的超细研磨提供了创造性的研磨介质。

## ▲ Description:

Silicon nitride beads NanorSiN are forming in unique extrusion processing from high grade silicon nitride powder and are sintered in the thermocompression kiln. The exquisite crystalline grain give the bead outstanding crushing strength, antioxidation, corrosion resisting and wear resistance. It is a innovative ceramic media for grinding extreme hard materials.

## ▲特点

- 相对氧化锆珠，具有更高的硬度，相对氧化铝珠，具有更好的韧性；
- 不足之处是密度偏低影响研磨效率。

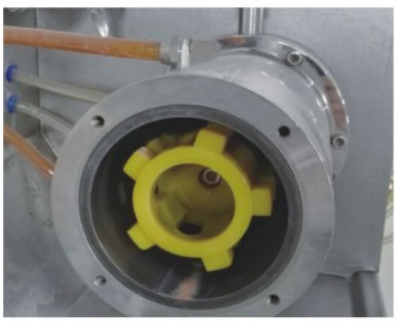
## ▲ Features:

- Relative to the zirconia beads, it has higher hardness for grinding the hard materials; Compared to alumina beads, higher toughness means less broken.
- The disadvantage is low density which will decrease grinding efficiency.

## ▲应用领域 Applications:

适合研磨石英、氧化锆、氧化铝、氮化硅和碳化硅等硬质材料。

For grinding silica, zirconia, alumina, silica nitride and other hard materials.



聚氨酯转子
(PU Agitator)

## ▲化学成分 Chemical Composition:

| 成分 | $Si_4N_3$ | Others |
|---|---|---|
| wt% | ≈98% | ≈2% |

## ▲物理性质 Typical Properties:

| 比 重 Specific Gravity | 散 重 Bulk Density | 莫氏硬度 Hardness Mohs | 维氏硬度 Hardness Vickers | 耐压强度 Crushing Strength | 断裂韧性 Fracture Toughness | 弹性模量 Elasticity Module |
|---|---|---|---|---|---|---|
| >3.1kg/dm³ | >2.0kg/L | 9.5 | >1600kg/mm² | 160kgf(2mm) | >7 MPa.m$^{\frac{1}{2}}$ | >300GPa$^{\frac{1}{2}}$ |

## ▲规 格 Sizes:

| 型号 Code | NN3 | NN4 | NN6 | NN8 | NN10 | NN12 | NN14 | NN16 | NN18 | NN20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 粒径(mm) Sizes | 0.3~0.4 | 0.4~0.6 | 0.6~0.8 | 0.8~1.0 | 1.0~1.2 | 1.2~1.4 | 1.4~1.6 | 1.6~1.8 | 1.8~2.0 | 2.0~2.2 | |

## ▶ 微粒尺寸转换表 The Particle Size Conversion Chart:

| 目 (mesh) | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 微米(μm) | 6730 | 4760 | 4000 | 3360 | 2830 | 2380 | 2000 | 1680 | 1410 | 1190 | 1000 | 841 | 707 |
| 目 (mesh) | 30 | 35 | 40 | 45 | 50 | 60 | 70 | 80 | 100 | 120 | 140 | 170 | 200 |
| 微米(μm) | 595 | 500 | 420 | 354 | 297 | 250 | 210 | 177 | 149 | 125 | 105 | 88 | 74 |
| 目 (mesh) | 230 | 270 | 325 | 400 | 600 | 800 | 1250 | 2500 | 3500 | 4000 | 5000 | 6000 | 7000 | 12500 |
| 微米(μm) | 63 | 53 | 44 | 37 | 20 | 15 | 10 | 5 | 4.5 | 3.4 | 2.7 | 2.5 | 1.25 | 1.00 |