

▲ 概述：

耐诺钇稳定氧化锆珠(NanorZr-95)采用氧化钇作稳定剂，微珠采用独创的滴定滚动成型、中温烧焙定相的工艺制成。形状有球形、圆柱形两种。微晶颗粒的直径小于 $0.4\mu\text{m}$ 使介质具有优异的耐磨性，小粒径珠子匹配棒销式高能量密度砂磨机，而大粒径球特别适合立式搅拌磨、卧式滚动球磨机、振动磨等设备对各种拒绝污染的浆料和粉料的湿法、干法的超细分散及研磨。

▲ 特点

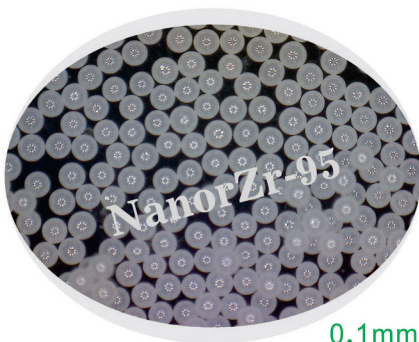
- 高比重：提供更高的研磨效率。
- 细致的微观结构：保证更好的耐磨性。
- 光滑的工作表面，完美的球度， $\pm 0.03\text{mm}$ 狭窄的粒径分布：减小珠子的内耗和设备接触件的磨损。

▲ 应用领域

- 新能源电池材料：正负极材料、导电液和隔膜涂层材料等；
- 电子元件材料：绝缘、压电和磁性材料等；
- 电子陶瓷器件：MLCC,LTCC,HTCC等；
- 数码喷墨：桌面墨水、陶瓷墨水、染料喷墨和颜料喷墨等；
- 新兴材料：抛光材料、滤光膜、光催化剂等；
- 功能涂料：热敏涂料、磁性涂料和抗菌涂料等。

▲ 化学成分

成分	ZrO ₂	Y ₂ O ₃
wt%	95	5.0



0.1mm



2.0mm



20mm

▲ Description:

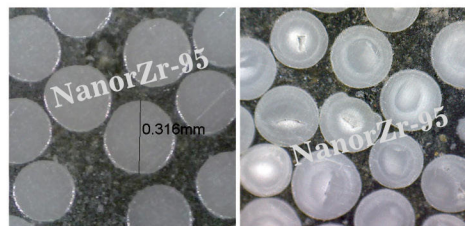
NanorZr-95 zirconium dioxide beads is stabilized with yttria in a unique shaping and sintering process, There are two types of shape including ball and cylinder. The pearl roundness and diamond wear- chip resistance lead to be used popularly in ball mills, basket bead mills and high energy density pins type pearl mills.

▲ Features:

- Micrometer grade bead:suitable for nanoscale dispersion of material;
- Homogenous microstructure:excellent crushing strength;
- Smooth working surface,perfect roundness, $\pm 0.03\text{mm}$,narrow size distribution: reducing wear on the beads and Avoid damage the mechano-chemical properties of some materials.

▲ Applications:

- New energy battery materials: cathode & anode materials, conductive additives and separators.
- Electronic component materials: insulation, piezoelectric and magnetic materials.
- Electronic ceramic devices: MLCC,LTCC,HTCC.
- Digital inkjet inks: desktop ink, ceramic ink, dye inkjet inks and pigment inkjet inks.
- Emerging materials: polishing agents, color filters and photocatalyst.
- Functional coatings: thermal coatings, magnetic coatings and antibacterial coatings.



滴定球实心结构 (Solid structure of titration ball) 滚动球分层结构 (Layered structure of rolling ball)

▲ 规格 (Sizes) 珠 (Beads):

型号 Code	粒径(mm) Sizes	型号 Code	粒径(mm) Sizes
NY0.5	0.05	NY11	1.1~1.3
NY1	0.1	NY12	1.2~1.4
NY2	0.2	NY14	1.4~1.6
NY3	0.3	NY16	1.6~1.8
NY4	0.4~0.6	NY18	1.8~2.0
NY6	0.6~0.8	NY20	2.0~2.2
NY8	0.8~1.0	NY22	2.2~2.5
NY9	0.9~1.1	NY25	2.5~2.8
NY10	1.0~1.2	NY28	2.8~3.2

球 (Balls):

型号 Code	粒径(mm) Sizes	型号 Code	粒径(mm) Sizes
NYB3	3	NYB25	25
NYB5	5	NYB30	30
NYB6	6.5	NYB35	35
NYB8	8.5	NYB40	40
NYB10	10	NYB45	45
NYB12	12	NYB50	50
NYB15	15		
NYB20	20		

圆柱 (Cylinders):

型号 Code	粒径(mm) Sizes
NYC5	5x5
NYC7	7x7
NYC10	10x10
NYC12	12x12
NYC15	15x15
NYC20	20x20
NYC25	25x25
NYC30	30x30

▲ 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	断裂韧性 Fracture Toughness	弹性模量 Elasticity Module	耐压强度 Crushing Strength	吨磨耗 Wear Rate
>6.0kg/dm ³	>3.6kg/L	9	>1200kg/mm ²	>10Mpa·m ^{1/2}	>200Gpa	2000N(2mm)	<0.01kg/T