▲概述：

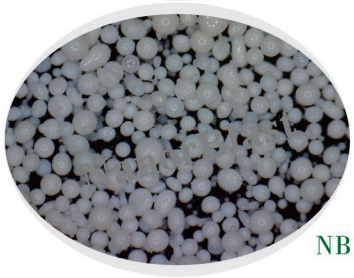
锆系列耐诺陶瓷喷丸NanorBlast利用独特的电熔法成型工艺制成，高密度、高球度和高断裂韧性为其主要特点，和传统的材料的玻璃珠、刚玉和钢丸比较，具有污染少、效率高、重复性强和使用寿命长等优点。为高档的新一代喷丸（喷砂）。

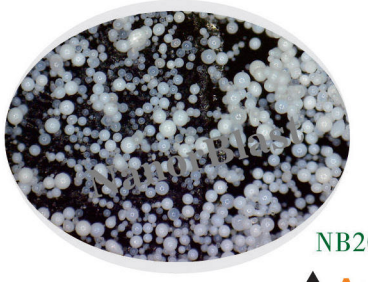
▲特点

- 合适的密度：>3.8kg/dm^3；比其它传统的树脂1.5kg/dm^3，玻璃珠2.5 kg/dm^3,钢玉3.6 kg/dm^3 都高，具有更高的生产效率；
- 更高的断裂韧性：>6Mpa.m1/2, 不容易破碎，可多次重复使用；同时降低对喷砂设备易损件的磨耗；
- 饱满的球度和均匀的粒度：流动性好，可获得工件处理效果的高度重复性和一致性；
- 优异的硬度、韧性和弹性：使用过程中不产生碎片且化学性质为惰性，不会交叉污染工件的表面；
- 致密的硅酸锆微晶结构：排除常规喷砂的带来的灰尘，环保又可降低灰尘回收装置的成本；
- 明显的性能/价格比：喷丸和设备的使用寿命长，设备的能耗低等。



NB60


NB120


NB205

▲ Description:

Ceramic blasting media NanorBlast is made with unique electric fused way. Compared to the traditional glass and alumina sands, it has higher specific gravity, better roundness and higher toughness, which benefit less contamination, higher impact efficiency and more recyclable. It is a new generation blasting media.

▲ Features:

- High efficiency due to suitable density over 3.8kg/dm^3 : resin with 1.5kg/dm^3, glass with 2.5 kg/dm^3, corundum sand with 3.6 kg/dm^3.
- High break strength over 6Mpa.m1/2: is not easy broken and is recyclable, friendly to the equipment.
- Full roundness and narrow sizes distribution lead to very good flowability: have good repeatability and uniformity for treated parts.
- Excellent toughness and chemical inertness : no broken bead to contaminate the surface of treated parts.
- Homogeneous microstructure of zircon: low dust for environmental protection.
- High cost performance: long service life for the bead and equipment.

▲应用领域 Applications:

耐诺陶瓷喷丸适合压缩空气喷砂机干法和湿法的工艺，同时也兼容滚筒式（涡轮）喷砂机。因其功能主要有两大用途：

A.工件表面的处理

- 合金、不锈钢和铜制品的表面抛光和修饰；
- 注塑件如玻璃器皿、陶瓷结构件、轮胎、塑料件和铝合金等上的模痕、结合纹和雾面的消除；
- 异型小五金件如硬质刀具、手机机壳、眼镜架和高尔夫球杆头等；电子元件；大型复杂件如发动机机箱、发电机传热系统等毛刺的去除；
- 模具的清扫。

B.工件表面物理机械性能的提高

- 提高抗疲劳强度：传动齿轮、弹簧、传动轴、涡轮桨和链条等；
- 消除应力：高压容器焊纹的去除，飞机机翼不良纹路的消除；
- 提高耐蚀性和耐磨性：轴承；
- 其它工件的喷丸硬化。

▲Applications:

NanorBlast ceramic bead can be used in the sand blaster with wet or dry air blasting, or be filled in wheel blasting. There are 2 main applications:

A. Surface treatment

- Alloy, stainless steel ad copper surface treatment and aesthetical finishing.
- Elimination of the die mark, bound line and matte on the injection molding of glassware, ceramic parts, tyre, plastic parts, aluminium alloy.
- Deburring of the hardware, the header of golf club head, mobile phone shell, electronic component, engine case and generator heat transfer system.
- Clearing of mold.

B. Improve the physical and mechanical properties of parts

- Increasing fatigue strength: transmission gear and shaft , spring, turbine and chain.
- Stress relieved: elimination of the welding lines of high pressure vessel, bad grain of the aircraft wing.
- Improvement of corrosion resistance and abrasive resistance: bearing.
- Shot peening of others.

▲化学成分 Chemical Composition:

成分	ZrO_2	SiO_2	Al_2O_3
wt%	60% ~ 70%	28% ~ 33%	< 10%

▲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	弹性模量 Hardness Vickers	颜色 Color	包 装 Packaging
3.8kg/dm^3	2.3kg/L	7	700kg/mm^2	>330GPa	White 白	25kg/桶

▲规 格 Size:

型号 Code	NB205	NB170	NB120	NB100	NB80	NB60	NB40	NB30	NB20
粒径(mm) Sizes	0.0 ~ 0.063	0.045 ~ 0.090	0.063 ~ 0.125	0.075~0.150	0.125 ~ 0.180	0.125 ~ 0.250	0.250 ~ 0.425	0.425 ~ 0.600	0.600 ~ 0.855