

NANOE

Ready-to-Use Ceramic Nanopowders



Zetamix®

3D printing filament

Al₂O₃ ZrO₂ ZTA



Ceramic filament manufacturing

New method for 3D printing of ceramic. Key benefits are:

- Complete freedom of shape
- Low investment with Zetaprint system
- High building speed
- Soluble or detachable support



Available material

Zetamix is a mix of plastic binder and between 50 and 60 vol% of ceramic raw material.

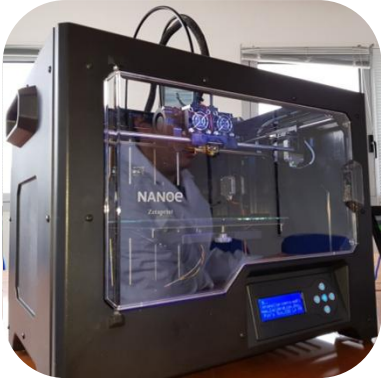
All our raw materials will be available, in 1,75 and 2,85 mm diameter: ZTA10 (zirconia toughened alumina), Al100 (alumina), 3Y-TZP (zirconia), and black zirconia.



High quality ceramics

After debinding and sintering, density > 99% can be obtained, with homogeneous microstructure.

Best results should be obtained using Zetaprint machine, but you can also adapt the filament on any filament 3D printing machine.



Zetaprint

Zetamix filament can be used on any FFF machine. However, Nanoe recommends to use Zetaprint machine in order to benefit from our experience and advices on printing parameters. Main features include:

- Dual extrusion for supports or 2 colored ceramic printing
- Removable glass plate for unloading of the printed parts
- Wear resistant nozzles (0.1 to 1mm nozzles)
- High accuracy (z down to 100 μ , xy down to 50 μ)



Solvent debinding

Zetamix is compatible with solvent debinding with acetone. This allows a stress free detachment from the building plate and supports, and a quicker debinding.



Starter pack

Nanoe offers a starter pack, with Zetaprint machine and 3 Zetamix spools. This pack includes a one day installation and training session.

During training we will explain the printing principles, show you main maintenance operations, and print together some first parts.

NANOE

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