ζetamix

by NANOE

Porcelain material for design, art and tableware applications

OUR VISION:

Easy made ceramic and metal 3D printing

Manufacturer of raw materials for more than 10 years, Nanoe is now a key player in the world of technical ceramics.With the expertise that we have acquired; we created our Zetamix filaments in 2018. We aim to provide material for all companies: multinational companies, SME, laboratories but also research centers. To achieve this goal, we have developed the brand Zetamix, the first ceramic and metallic filaments compatible with any FFF 3D printers.

Nanoe also provides tested and approved machines by our team for companies that are not equipped. The Zetamix kit includes a Raise 3D printer equipped with a “direct drive” system suited for our Zetamix filaments, a debinding kit and a tubular furnace.

Low investment

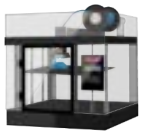
Easy 3D Printing

Multimaterial

ZETAMIX PORCELAIN PROCESS:

The manufacturing of Zetamix porcelain parts is done in 6 steps: starting with file preparing and printing of the piece, then chemically debinding it in an acetone bath and thermally debinding it at 1000 °C. Once these 4 steps are completed, the printed porcelain pieces can be dipped or colored with the chosen glaze, after drying comes the final sintering at 1250 °C and the piece is ready.

File preparation **1**



Printing **2**

Chemical debinding **3**

Thermal debinding and first firing at 1000°C **4**

Glazing **5**

Final sintering at 1250°C **6**

OUR FILAMENT

The Zetamix porcelain filaments are made for artists, creators, designers and technology enthusiasts. The idea is to introduce Porcelain into the world of 3D printing, allowing users to expand their potential and creativity by making it possible to create complex porcelain shapes that are highly resistant to heat, food safe, water tight, affordable and durable using the Zetamix material

Porcelain filament Properties

Mass fluidity index[g/10(min)]	16
Volumetric fluidity index [cm3/10(min)]	8
Moisture Absorption 24 hours [%]	<0.1%
Moisture Absorption , 7 days [%]	<0.3%

OUR GLAZES

-Food safe and Water tight

-Smooths pieces without any polishing

-Vibrant colors and brightness

- Easy to use

- Scratch resistant

OUR ZETASINTER

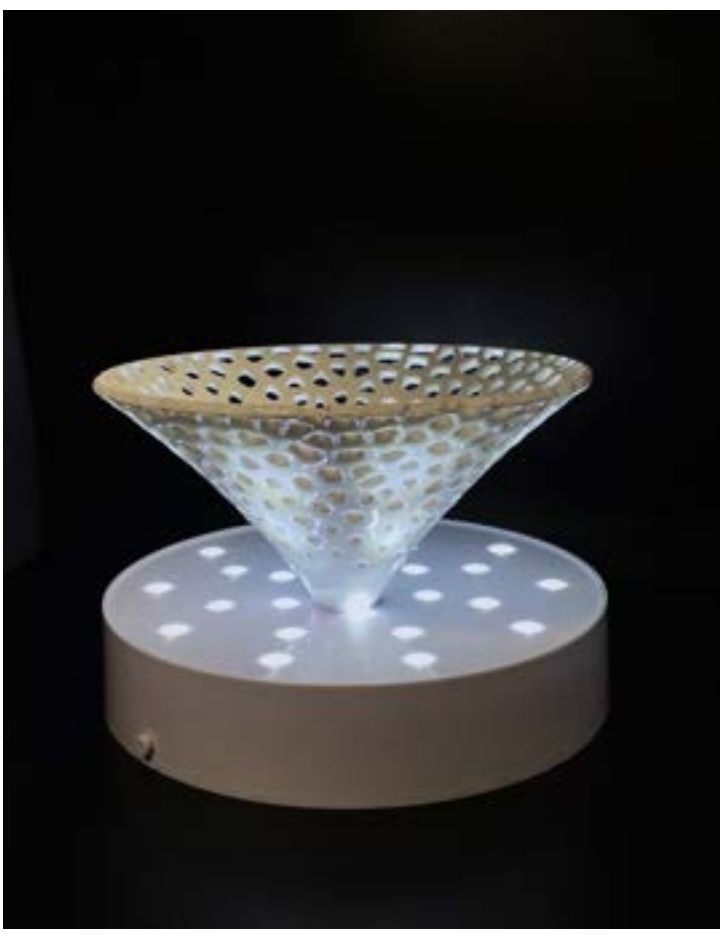
CERINNOV X ζetasinter

-Equipped with a fully configurable automatic temperature programmer with multiple heating modes

-Ideal for prototyping and small-scale production

-Capacity of 54 liters, 4.5 kW power, and a maximum temperature of 1320°C

-Easy to use and affordable

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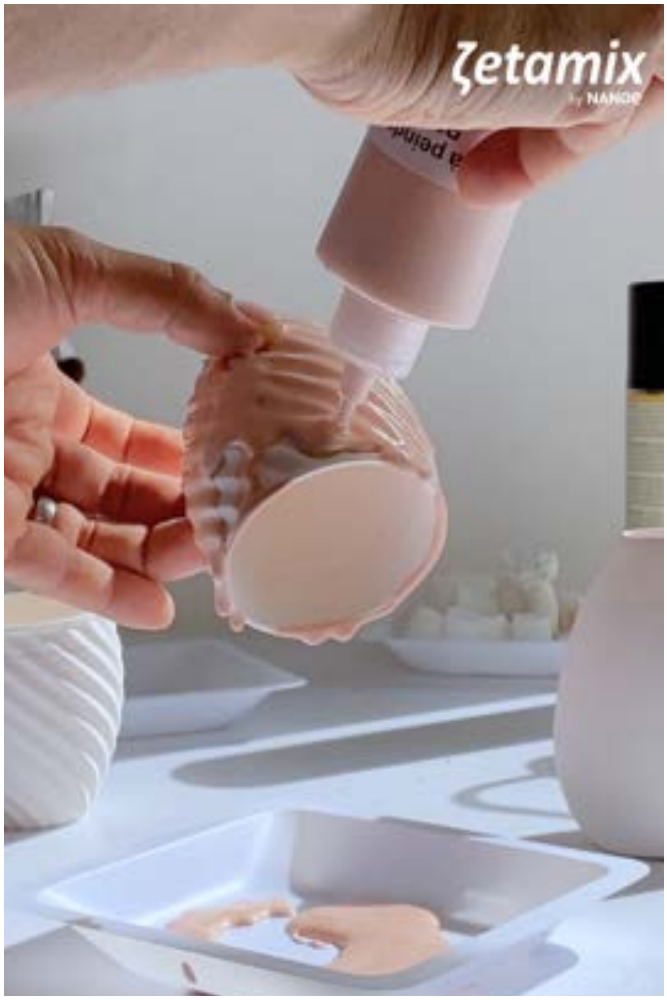
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