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TECHNICAL DATA SHEET
PORTUX 3D CAST
DPFTPT - 162

1. PRODUCT OVERVIEW

Low viscosity photopolymerizable resin suitable for printing castable parts with excellent precision and definition, faithful to digital design. The product has a translucent dark red color, which allows for optimal contrast between the print and the working model. Its clean calcination allows its application in metal casting processes and injection of ceramic dental parts without surface defects. This product is compatible with DLP stereolithography printers with wavelengths of 385 and 405 nm and 405 nm monochromatic light LCD stereolithography.

2. COMPOSITION

- Acrylic monomers.
- Polymerization initiator.
- Pigments.

3. PRODUCT PROPERTIES

- Excellent precision and detail quality.
- Calcines without any trace of residual ash.
- High stability level, which ensures a minimum product separation.

4. USES AND APLICATIONS

With this resin, dental pieces suitable for calcining processes and subsequent metal casting or ceramic injection can be printed.

5. QUALITY ASSURANCE OF THE PRODUCT

New Stetic has strict standardized internal controls in the manufacture of its products, in order to guarantee an optimum quality for the final customer.

Additionally, it has qualified personnel in the Quality Control area, where compliance with the final specifications of the product is verified, in accordance with the established regulations, with the help of physical resources such as calibrated equipment.

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6. INSTRUCTIONS FOR USE

- Always mix the resin bottle for at least 20 minutes on a mechanical vibration device or roller before opening the product for the first time. This ensures an optimal performance in the printer and color reproducibility.
- Shake the resin vigorously before pouring it into the printer.
- Print the resin following your printer's instructions for handling and use.
- Post-processing of printed frameworks:
    - For cleaning the printed frameworks isopropyl or ethyl alcohol is recommended, preferably using ultrasonic equipment or shaker. Rinse the frameworks in an alcohol bath for 5 minutes and then rinse them again in clean alcohol for the same time. It is recommended to use compressed air between cleanings to remove the excess resin within the cavities or critical areas of the model.
    - Remove the frameworks from the alcohol and dry them with compressed air or in an oven at 40 °C for 30 minutes. **IMPORTANT:** Avoid curing damp or wet frameworks, as this affects the precision and final definition of the printed parts.
    - It is recommended to cure the parts under UV light for at least 10 minutes to achieve the maximum strength.
- After printing it is recommended to return the resin to its original container.
- **IMPORTANT:** This product is not biocompatible and should not be used in the mouth.

7. COMERCIAL PRESENTATIONS

The PORTUX 3D CAST resin comes in presentations of 250 g, 500 g and 1 kg.

8. STORAGE AND PRESERVATION CONDITIONS

Keep the product in its original container, preserving it from the follow situations:

- Direct sunlight exposure.
- Away from high heat and wet sources.
- Dust or another type of pollutants.