



## SECTION : MODEL RESINS

**Q : What are the main differences in your various model resins - Model Pro, Model Standard ,Model Basic & Model Hard ?**

A : Model Resins Line up from D Tech

<p><b>Model Pro</b></p>  <ul style="list-style-type: none"> <li>• Top of the line resin for Master Models with removable dies</li> <li>• “Matt” diestone like Haptics.</li> </ul>	<p><b>Model Standard</b></p>  <ul style="list-style-type: none"> <li>• Daily use resin with Good accuracy.</li> <li>• Good for all applications including prosthetics and thermoforming</li> </ul>	<p><b>Model Basic</b></p>  <ul style="list-style-type: none"> <li>• Low viscosity and yet resonably accurate.</li> <li>• Picks up fine details.</li> <li>• Can also work with low light intensity printers</li> </ul>	<p><b>Model Hard</b></p>  <ul style="list-style-type: none"> <li>• Economical</li> <li>• Hard and won't deform but a bit brittle.</li> <li>• Works well for hollow models</li> </ul>
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**Q : Are your resins compatible with all 3D printers ?**

A: Yes, our resins work on all “ open printers ” . We always recommend to buy open printers. For dental use we recommend quality printers like Asiga (DLP /385nm) and Ackuretta (LCD /405nm). Our resins are officially validated on both.

**\* ASIGA**



D Tech Accuprint material files are available for download from the Asiga material library:  
<https://www.asiga.com/open-material-library/>

\* ASIGA (Logo) is a trademark of Asiga ,Australia  
 \*ACKURETTA (Logo) is a trademark of Ackuretta ,Taiwan

**\* ACKURETTA**



D Tech resin profiles are available in Ackuretta Alpha AI slicing software: Please Scroll within the software to find D Tech resin profiles.

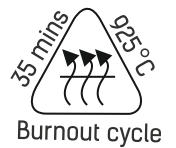
Our resins can also work on several low light LCD printers as shown below. Typically most of these printers use Chitubox or Lychee as the slicing software. Please connect / email to us for our “printer settings guidance sheets” for these printers and many more. You are advised to ask the manufacturers about the light intensity of the printer. For Bio-compatible resins, we recommend a light intensity of at least 5mw/cm<sup>2</sup> or more. Please test the light intensity of your printers periodically. Please avoid using large build plates to prevent Z axis errors.



## SECTION : CAST RESINS

**Q : Can you briefly detail the protocol for your castable resin including a suitable investment & recommended burnout cycle ?**

A: After printing, post curing and cleaning up the pattern, please invest using a High temperature rapid Investment For example Brevest , Germany, Rapid 1 investment material . Vacuum mixing is strongly recommended. We also recommend (optional) that you use a pressure chamber to harden the investment. The burnout cycle that we recommend is 925°C with 35 mins of holding. Please use a good ventilated burnout furnace for example Nabertherm / Renfert



## SECTION : SG RESINS

**Q : Can you detail the main features of D Tech surgical guide resin ? Is it autoclavable?**

D Tech Surgical guide resin has a unique feature of colour change. After printing it is pale yellow. After post curing it turns orange translucent .Finally upon successful autoclaving, it turns colourless translucent. This allows for proper monitoring of the success of each stage of the guide fabrication. ⚠ Please insert sleeves after printing but “before post curing”. This will ensure a good passive fit.



YELLOW ON FIRST WASH AFTER PRINTING



ORANGE TINGED AFTER POST CURE



TRANSPARENT ON AUTOCLAVING

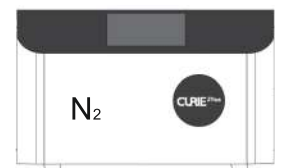
## SECTION : C&B RESINS

**Q : What is the difference between D Tech C&B and C&B Pro resin?**

A: All Our C&B resins are based on advanced technology similar to high end dental composites and contain inert fillers composed of dental glass & ceramic nano particles. C&B Pro version contains ceramic nano fillers and has a higher filler loading percentage. This provides improved wear resistance as well as higher radio opacity in the Pro version. (Note- C&B resins are Class 2a medical device and very different from “tooth colour resins” which are simply coloured resins. Please choose your C&B solutions with care)

**Q : Which printer and post cure do you recommend to print C&B resin?**

A: ⚠ Results obtained with C&B resins are highly dependent on using the correct printing and post curing protocol in conjunction with the best resin. Printers must be of high light intensity & preferably 385nm wavelength. Asiga Max UV385 is recommended. After printing, Post curing has a very significant impact on the final properties of the prostheses. Ideally use a Nitrogen flushed or vacuum, high-power, flashing light post cure unit like Otofash or Curie Plus.



**Q: Is D Tech C&B Pro a “permanent C&B resin”?**

A: 3D printed Crowns and bridges are a relatively new technology worldwide. Several lab tests indicate that printed prostheses can last over 5 years in the mouth. However these tests are based on chewing simulation and fatigue tests and there is no long term clinical data available at this time. Mechanical testing and simulation shows that some 3D printed prosthesis are capable of being technically termed as permanent. However, we prefer to call them “ long term provisionals”. We advise the dental professionals to proceed conservatively after due clinical evaluation of the patient and technology limitations.

