

Essential Trouble Shooting Tips for Dental Technicians



Rest assured, we are committed to developing the best possible investment materials for almost every dental application and indication we can think of. The growing number of manufacturers and materials in the dental marketplace makes it difficult to keep up with trends and almost impossible to test our investments with every type of ceramic, press furnace, burnout furnace, wax, 3D printed material, etc available. If you are experiencing problems, we urge you to use this checklist to perform a self-assessment and identify any underlying issues.

Finning on pressed objects

It is reported that some types of 3D materials do not work well with certain types of investment. This should be taken into consideration when using LukaVest Press LS2. Try another brand or type of 3D resin. You should also check the following:

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- Does the furnace have the correct firing/pressing programme installed?
- - Check the pressure on the plunger - reducing the pressure may help reduce finning.
- - The LukaVest Press LS2 is primarily designed for rapid heating. Conventional heating can sometimes cause finning problems. Switch to speed heating if possible.
- - We recommend that you dilute your mixing liquid AT LEAST with distilled water, preferably deionised water with a conductivity of 0 mS. Water designed for use in car batteries, household appliances etc. is a good choice if available. Avoid using tap water.
- - Is the bench set time correct? If your rings/cylinders are placed in the furnace too early, the investment may not be fully set on the inside. This will definitely cause problems during heating/pressing.

Fit of pressed objects

All recommendations in the instructions for use should be considered as a starting point. The required liquid concentration will need to be adjusted depending on the type of alloy, ceramic, wax, resin, etc. and also depending on the ambient temperatures, relative humidity and liquid temperatures in your specific area. The general rule of thumb for adjusting your liquid concentration is as follows

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Fit of object too large --> use less mixing liquid and more water
Fit of object too small --> use more liquid and less water.

Stay Agile

We hope you will appreciate that we do not send material overseas unless it has passed the rigorous quality control tests in our laboratory, which include test pressing of both conventional and LS2 ceramics. Trying to identify your problem from a distance and without knowing the details of your day-to-day laboratory procedures is difficult. It is therefore important that you provide us with as much information and detail as possible so that we can reconstruct your procedures as closely as possible. This includes material names and types, batch numbers of the equipment and anything else you think is important. The more details we have, the better.