

Ceramir vs. ceramic blocks

DIRECTA presents a breakthrough in the fabrication of CAD/CAM materials.

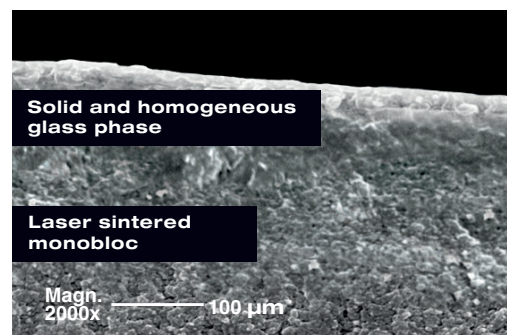
Through a process of laser sintering and vitrification, state of the art CAD/CAM blocks are developed. Through this manufacturing process, the glass particles are brought together to form a homogenous layer and the finished product consists of a single hybrid glass-phase embedded in a resin matrix. Through the use of metal oxides like aluminum oxide its strength is improved and the use of zinc oxide makes the material plaque and biofilm resistant. This bio-ceramic block combines the best of three technologies, namely glass ceramics, particle filled ceramics and resin technologies. The resultant is a block that combines the esthetic properties that are similar to that of feldspathic glass ceramic without having the brittleness of pure ceramics, the strength of particle filled ceramics and the resilience of composite technology.

Deciding to switch to Ceramir CAD/CAM Blocks from ceramic CAD/CAM blocks involves considering the following factors.

HERE ARE SOME REASONS WHY YOU SHOULD CONSIDER MAKING THE SWITCH:

1. EASE OF USE

- The ease of use and simplicity of the Ceramir CAD/CAM System makes it an ideal choice for the busy digital dentist. It offers a straightforward digital workflow and integrates seamlessly into your current processes which leads to increased efficiency and reduced chairside time.
- Ceramir CAD/CAM Blocks are designed to be user-friendly, with simplified milling procedures and minimal post-processing required.
- Milling time is much shorter than ceramic systems. The milling drills last longer due to the glass phase of the Ceramir Block that is much 'kinder' to the drills saving you money.
- After milling procedures, no additional firing and/or glazing needed unlike ceramic blocks that require these additional time-consuming processes and equipment.
- Ceramir Block is compatible with different milling machines and software for a flexible digital workflow.
- Ceramir CAD/CAM are clinically more versatile and suitable for a wider range of clinical applications from anterior and posterior crowns to inlays, onlays, partial crowns, veneers and ultra-thin veneers.



2. ESTHETIC VERSATILITY

Ceramir CAD/CAM Blocks offer enhanced esthetic versatility.

- They provide a more natural appearance, that closely mimics the appearance of natural teeth. The various shades and translucencies in the Ceramir System is advantageous in achieving lifelike dental restorations.
- With the highly translucent block (Ceramir T-Block) the clinician can manipulate the dentine shade to obtain the exact shade match.
- Internal characterizations can be easily done chairside offering an exact duplication of the nuances of the clinical situation.

3. PATIENT COMFORT

- Ceramir CAD/CAM Blocks allow for more conservative tooth preparations allowing for less patient chairside-time and preserving tooth structure.
- There is no need for additional adjustments thus enhancing the overall patient experience.
- Can be easily repaired in the mouth (should it chip or fracture) unlike ceramic restorations that need to be replaced if it fractures resulting in additional costs.
- Having a modulus of elasticity of 20 GPa (similar to dentine), the resilience of the material provides a “shock absorbing effect” of the restoration ensuring patient comfort and satisfaction. This is especially important with implant supported restorations preventing implant or screw fracture.

4. MATERIAL CHARACTERISTICS

- Strength and Durability: Vickers Hardness of 100 HV ensures even wear resistance with natural teeth unlike that of ceramics, because of its hardness, causes an uneven wear of the opposing teeth. The mechanical properties of the block, including its strength, durability and resistance to wear, ensures Ceramir CAD/CAM Blocks are suitable for different types of dental restorations.

- Precision and Fit: Ceramir Blocks are designed and manufactured with exceptional precision to ensure a tight and accurate fit.
- The accuracy of the Ceramir CAD/CAM milling process provides an accurate duplication of the margin and resultant fit of the restoration ensuring the success of your dental work.

5. COST-EFFICIENCY

- Using Ceramir CAD/CAM Blocks offer cost-efficiency over ceramic blocks. It provides a more competitive price point, time saving fabrication process, no additional equipment needed leading to a positive impact on your practice's bottom line.

6. TRAINING AND SUPPORT

- DIRECTA has excellent worldwide customer support and training resources that makes a significant difference to your overall experience of using Ceramir CAD/CAM Blocks.
- DIRECTA offers various educational workshops and training programs with ongoing support to allow for a smooth transition and successful implementation into your practice.

