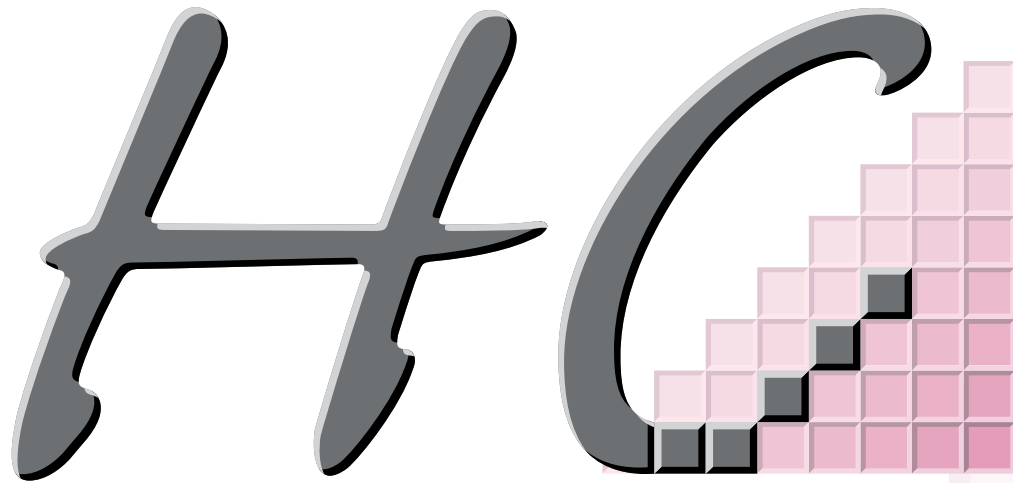


# SHOFU BLOCK & DISK



CAD/CAM CERAMIC-BASED RESTORATIVE



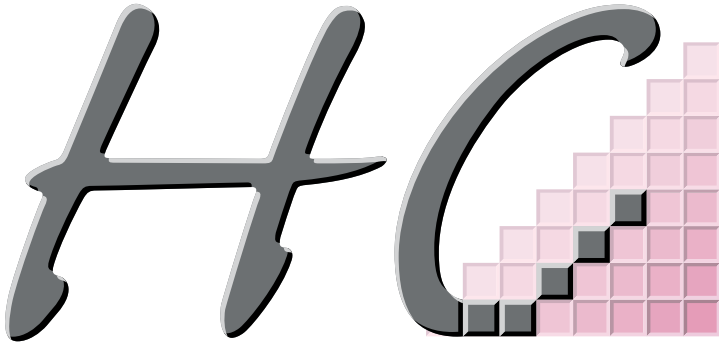
10mm x 12mm x 16mm  
12mm x 14mm x 18mm



98mm x 14mm



Visit [www.shofu.com](http://www.shofu.com) or call 800.827.4638



Intended to provide clinicians with the capability of restoring teeth in a single appointment, **Shofu Block & Disk HC** represents a new generation of CAD/CAM composites. This innovative material features a formulation designed to minimize flaws attributed to conventional ceramics.

Composed of 61% zirconium silicate, a densely packed nanofiller of **Shofu Block & Disk HC** forms a skeleton which uniformly absorbs masticatory forces and promotes resistance to breakdown phenomena. When compared to other CAD/CAM materials, **Shofu Block & Disk HC** manifests better machinability in terms of milling time, damage tolerance, wear of milling instruments, and the ability to be fabricated in a very low thickness.

The high flexural strength of 191 MPa and Vickers hardness of 66 Hv0.2 make **Shofu Block & Disk HC** a good candidate for both anterior and posterior restorations, implant-supported cases, and long-term provisionals. Additionally, the hardness of the material also demonstrates values closer to dentin, thus no excessive antagonist wear can be observed, which is a concern when using aesthetic and high-strength ceramics.

- Universal indications – anterior/posterior crowns, inlays/onlays, veneers
- Faster milling; better accuracy and marginal integrity
- No firing/sintering – simplify the workflow
- Can be adjusted/repaired intraorally
- Life-like aesthetics with fluorescence of natural dentition
- BPA-Free



Full-contour HC Block crown. Courtesy of Muneki Hirayama, DMD, Boston, MA



HC Block crown before polishing. Courtesy of Abel Fernandez, CDT, San Marcos, CA



Dentition-like light transmission makes this optimally balanced hybrid ceramic ideal for the production of highly aesthetic anterior restorations. Thanks to its excellent physical properties, it can also be used to create posterior restorations, absorbing occlusal stress and providing high-edge stability.

With superior flexural strength and low flexural modulus, the material has excellent capability to diffuse stress, making it an ideal alternative to lithium disilicate and zirconia.

**Shofu Block & Disk HC** is milled quickly and precisely and polished to a high gloss in a very short time, and the restoration can be cemented or screw-retained immediately.

### NATURAL AESTHETICS WITH TWO-LAYER HC



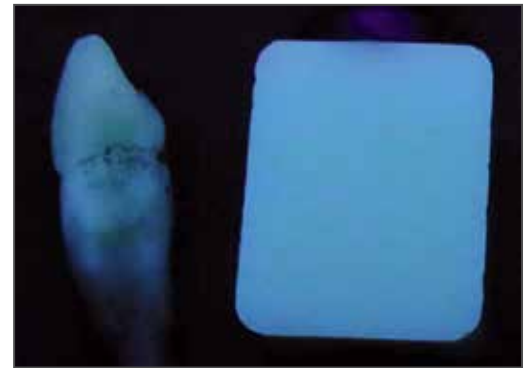
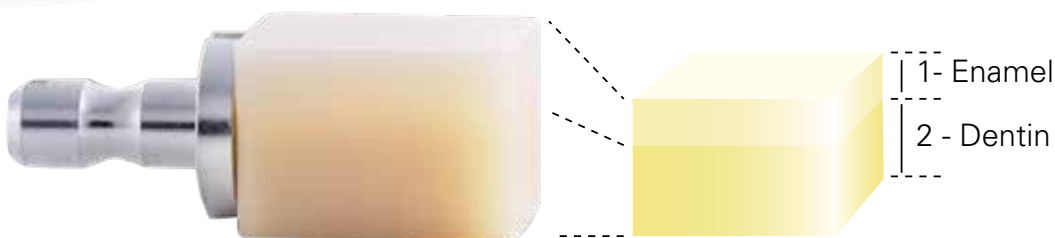
HC Two-Layer (A3.5)



HC One-Layer (A3.5)

The **Two-Layer Shofu Blocks HC** efficiently create aesthetically pleasing anterior and posterior restorations. The bilayered blocks are modeled after the layering of natural teeth with a chromatic opaque dentin layer and a translucent layer of enamel. Effortlessly achieve consistent and accurate shade matching while reducing chairside time and treatment cost.

### Shofu Blocks HC Two-Layer Ratio



Mimics natural dentition's optical properties of light diffusion and anisotropy.



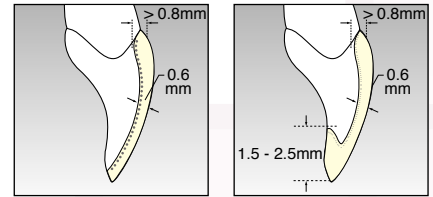
**Shofu Blocks & Disks HC** can be milled wet or dry in all standard milling units.



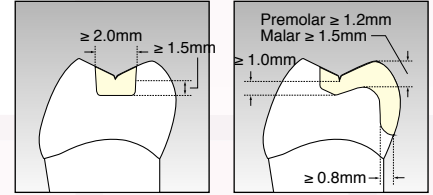
The optical properties of **Shofu Blocks & Disks HC** demonstrate the translucency and light diffusion of natural teeth and blend with the surrounding tissue with ease.

The proprietary microarchitecture of the material supports high wear resistance and superior gloss retention allowing for a broad range of indications.

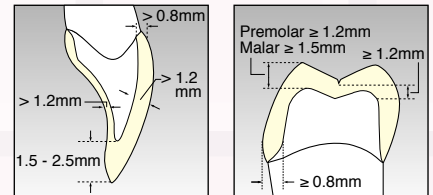
Shofu CAD/CAM composite, **Blocks & Disks HC**, are manufactured in one- and two-layer blocks and disks. They are available in common tooth shades and translucencies, based on the VITA\* Classical shade system.



Veneers



Inlays / Onlays



Crowns

### SHOFU BLOCK & DISK HC FINISHING & POLISHING TECHNIQUE

**Shofu Blocks & Disks HC** can be easily finished, polished, and adjusted intraorally<sup>1</sup> with the same instruments as direct resin composites. Furthermore,

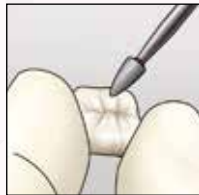
they can retain their gloss, shade, and surface anatomy nearly as effectively as traditional ceramics.<sup>2</sup>



Remove sprue



Check occlusion



Adjust & Contour  
(Robot Diamonds, Dura-Green, Dura-White, Super-Snap)



Smooth Surface  
(CeraMaster Coarse, CeraMaster, Super-Snap)



Pre-Polish  
(Aluminum Oxide impregnated polishing paste - DuraPolish)



High Gloss Polish  
(Diamond impregnated polishing paste - DuraPolish DIA) Clean with ultrasonic cleaner or steam cleaner & dry

	W2	A1	A2	A3	A3.5	B3	59	OC
<b>LT</b> Low Translucency	■	■	■	■	■	■		
<b>HT</b> High Translucency		■	■	■				
<b>Enamel</b>							■	■
<b>2L</b> Two-Layer Block			■	■	■			

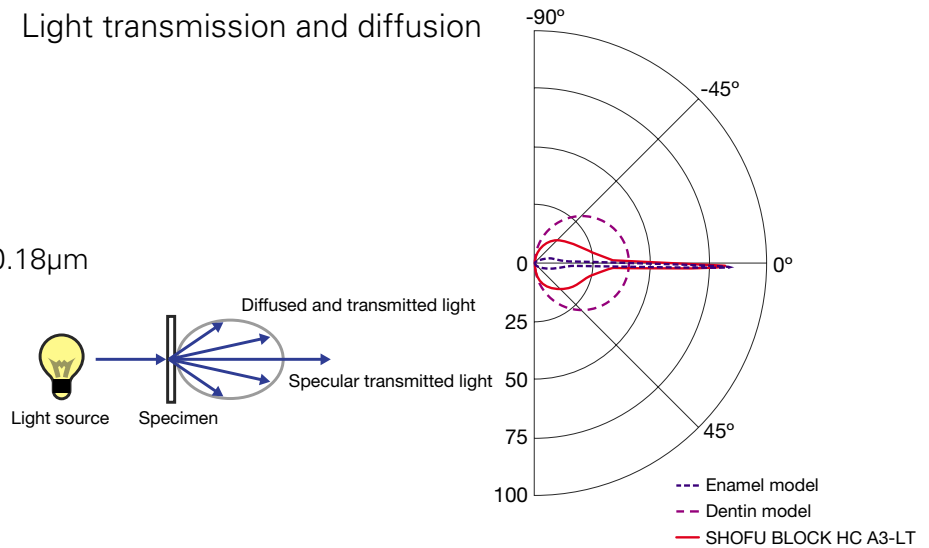
\* VITA is a registered trademark of VITA Zahnfabrik, Bad Säckingen, Germany

- Low Translucency is intended for posterior crowns
- High Translucency is designed for inlays and anterior crowns
- Enamel reestablishes the enamel layer for inlay/onlay and veneer cases
- Two-Layer Block effortlessly creates aesthetic anterior restorations

## PHYSICAL PROPERTIES

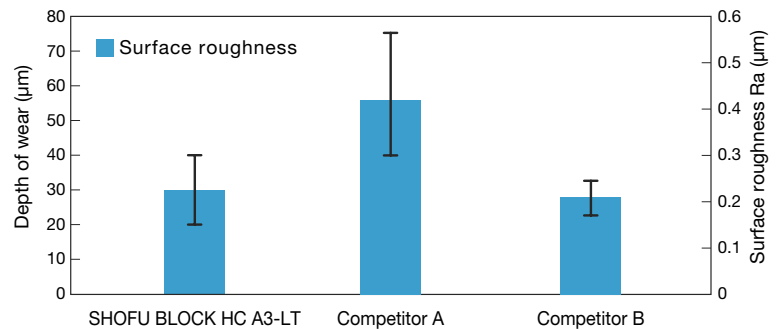
- Compressive Strength: 472MPa
- Flexural Strength: 191MPa
- Flexural Modulus: 9.6GPa
- Depth of Wear: 25.8 $\mu$ m
- Surface roughness after toothbrush wear: 0.18 $\mu$ m
- Vickers Hardness: 66HV0.2
- Gloss Value after polishing: 75%
- Contrast Ratio: 0.60 (A3-LT)
- Opal Index: 10.1 (A3-LT)
- Stain Resistance (rhodamin 1 day  $\Delta$ E): 8.1

## Light transmission and diffusion



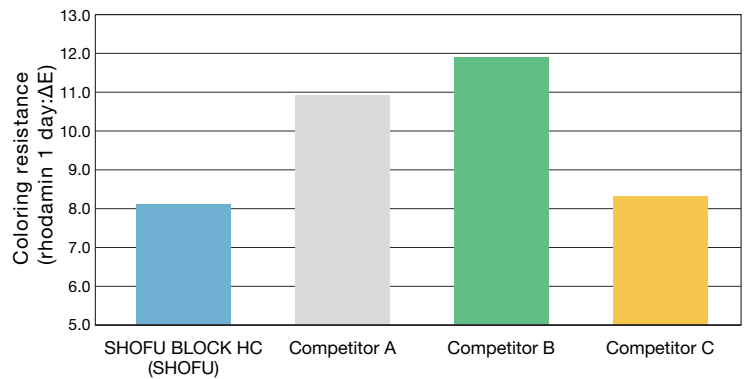
## OUTSTANDING WEAR RESISTANCE

The proprietary microstructure of **Shofu Block & Disk HC** and its spherically-shaped high-density filler particles achieve greater polishability and higher gloss retention than other CAD/CAM restorative materials.



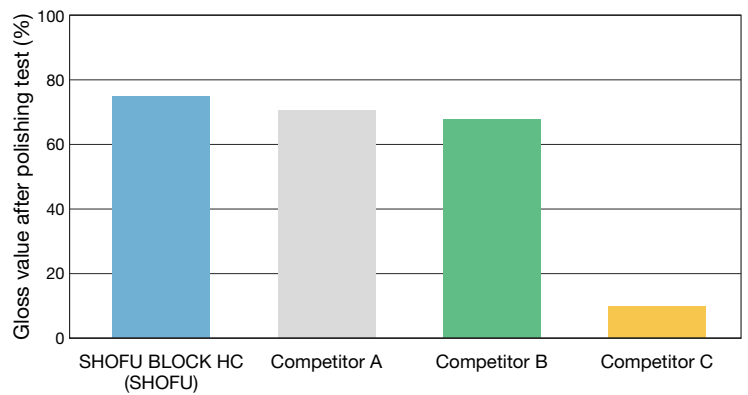
## EXCELLENT COLOR STABILITY

Food and drinks discolor both natural dentition and composite restorations. **Shofu Block & Disk HC** has proven to demonstrate higher resistance to staining and better gloss retention as compared to other CAD/CAM materials.



## REMARKABLE HIGH GLOSS FINISH

**Shofu Block & Disk HC** innovative microstructure creates a smooth and durable surface finish. A natural gloss can be achieved with a few intermediary steps.



1. Fasbinder D, Neiva G. Surface evaluation of polishing techniques for new resilient CAD/CAM restorative materials. J Esthet Restor Dent. 2016;28(1):56-66.  
 2. Diedrichs G. University of Dusseldorf, Klinik für Zahnärztliche Prothetik, UKD der Heinrich-Heine-Universität.

**BLOCK HC - CEREC**  
10mm x 12mm x 16mm

SHADE PN

**ONE-LAYER 5 PCS.**

W2-LT	2151C
A1-LT	2153C
A2-LT	2155C
A3-LT	2164C
A3.5-LT	2156C
B3-LT	2165C
A1-HT	2152C
A2-HT	2154C
A3-HT	2163C
59 (Incisal)	2166C
OC (Occlusal)	2167C

**TWO-LAYER 5 PCS.**

A2-2L	Z0011
A3-2L	Z0012
A3.5-2L	Z0013

**BLOCK HC - UNIVERSAL**  
10mm x 12mm x 16mm

SHADE PN

**TWO-LAYER 5 PCS.**

A2-2L	Z0005
A3-2L	Z0006
A3.5-2L	Z0007

**BLOCK HC - CEREC**  
12mm x 14mm x 18mm

SHADE PN

**ONE-LAYER 5 PCS.**

W2-LT	2157C
A1-LT	2159C
A2-LT	2161C
A3-LT	2169C
A3.5-LT	2162C
B3-LT	2170C
A1-HT	2158C
A2-HT	2160C
A3-HT	2168C
59 (Incisal)	2171C
OC (Occlusal)	2172C

**TWO-LAYER 5 PCS.**

A2-2L	Z0008
A3-2L	Z0009
A3.5-2L	Z0010

**BLOCK HC - UNIVERSAL**  
12mm x 14mm x 18mm

SHADE PN

**TWO-LAYER 5 PCS.**

A2-2L	Z0001
A3-2L	Z0002
A3.5-2L	Z0003

**DISK HC - CEREC**  
98mm x 14mm

SHADE PN

**ONE-LAYER**

W2-LT	2180S
A1-LT	2181S
A2-LT	2182S
A3-LT	2183S
A3.5-LT	2184S
B3-LT	2185S
A1-HT	2186S
A2-HT	2187S
A3-HT	2188S
59 (Incisal)	2189S
OC (Occlusal)	2190S

**BLOCK HC - CERAMILL**  
12mm x 14mm x 18mm

SHADE PN

**ONE-LAYER 5 PCS.**

W2-LT	2157A
A1-LT	2159A
A2-LT	2161A
A3-LT	2169A
A3.5-LT	2162A
B3-LT	2170A
A1-HT	2158A
A2-HT	2160A
A3-HT	2168A
59 (Incisal)	2171A
OC (Occlusal)	2172A

**TWO-LAYER 5 PCS.**

A2-2L	Z0014
A3-2L	Z0015
A3.5-2L	Z0016



LT = Low Translucency  
HT = High Translucency

**COMPLEMENTARY PRODUCTS**



**NEW!** BlockButler CAD/CAM Block Storage, Organizer & Display. Holds 100 blocks • Fits all brands\* • Wall mount or store in drawers  
**8200GC**



HC Primer, 5mL  
**Y0005**



MonoCem, (2) 3.5g Translucent **3208A**  
Bleach White **3209A**



ResiCem, (2) 5mL  
**3220**



Dura-Polish Polishing Paste, 20g  
**0552**  
Dura-Polish DIA Polishing Paste, 5g  
**0554**



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