MAZIC Claro CAD

Lithium Disilicate Glass Ceramic for CAD/CAM

MAZIC Claro CAD
HT-A1 C14
VERICOM

Variety of Shade · High Flexural Strength ·
Excellent Fracture Strength · Excellent Esthetics
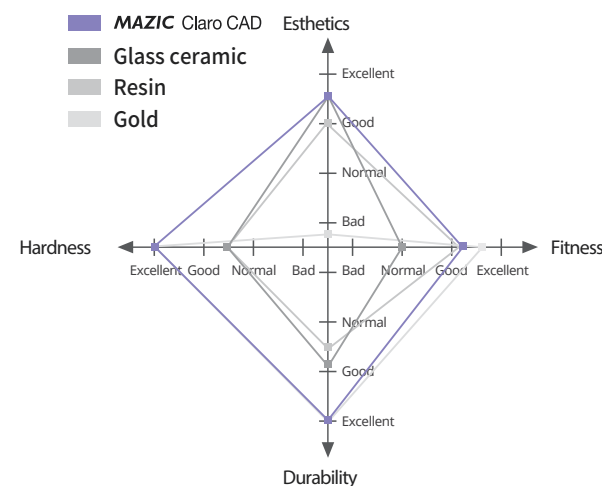
Formation of inner side

MAZIC Claro CAD

MAZIC Claro CAD is a high-strength glass ceramic block by Lithium Disilicate for CAD/CAM process. Applications are single restoration unit such as Inlays, Onlays, Veneers and Crowns. It is possible to produce Full contour, Cut-back and Coping in case of Crown application due to various shades as well as 3 types of transparency. Also, you can take the advantage of natural tooth-like esthetics with processing of Staining, Glazing and Build-up.

MAZIC Claro CAD provides you with high flexural strength around 450MPa and also you can save processing time and bur consumption through excellent accuracy as well as efficiency in working. There is no much considerable variation on shades and transparency after many times of sintering.
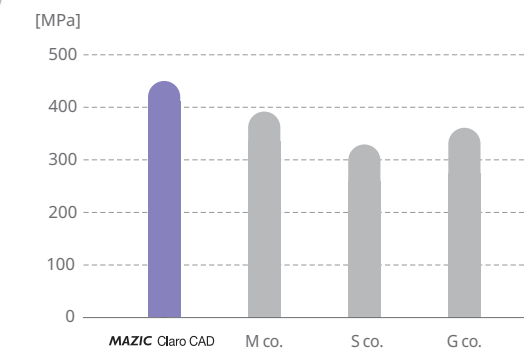
In this regard, **MAZIC Claro CAD** is much more stable than other blocks of Lithium Disilicate reinforced by zirconia while using.

Physical properties comparison in Inlay application

Excellent esthetics and durability !

- Biocompatible
- 1-day treatment
- High flexural strength and vickers hardness
- Save working time by excellent process optimization
- Wide applications of Inlays, Onlays, Veneers and Crowns
- Natural tooth-like esthetics with various shades and transparency

Crown   Onlay   Inlay   Veneer

Legend:
- MAZIC Claro CAD
- Glass ceramic
- Resin
- Gold

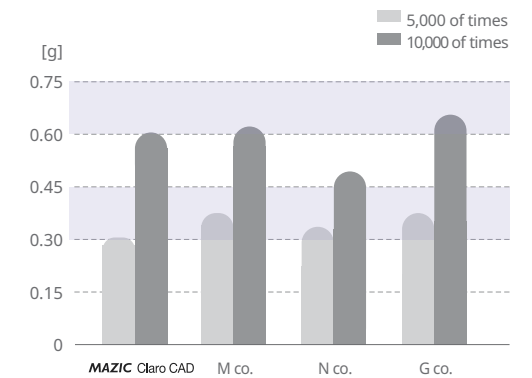Radar chart axes: Esthetics, Fitness, Durability, Hardness (scales: Excellent, Good, Normal, Bad)

MAZIC Claro CAD shows outstanding flexural strength and fracture toughness more than glass ceramic in feldspar series and indirect resin. Also, esthetics by **MAZIC Claro CAD** is the most similar to natural teeth. You can achieve the best esthetic prosthesis by using **MAZIC Claro CAD.**
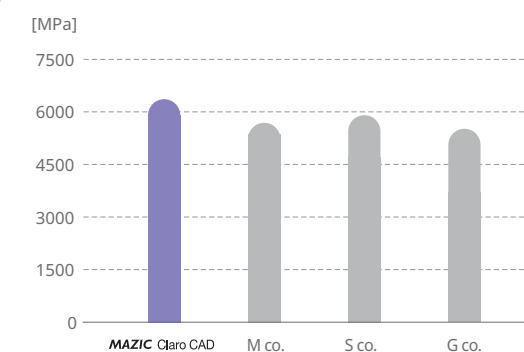
Flexural Strength

[MPa] — axis: 0, 100, 200, 300, 400, 500
Bars: MAZIC Claro CAD, M co., S co., G co.

High flexural strength makes possible to use the material for a long time in oral.

Vickers Hardness

[MPa] — axis: 0, 1500, 3000, 4500, 6000, 7500
Bars: MAZIC Claro CAD, M co., S co., G co.

High vickers hardness increases resistance to micro-wear.

Wear Resistance

[g] — axis: 0, 0.15, 0.30, 0.45, 0.60, 0.75
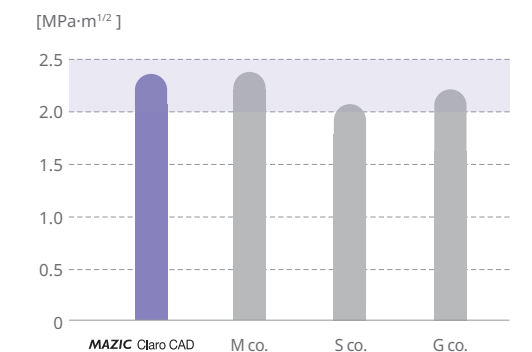Legend: 5,000 of times, 10,000 of times
Bars: MAZIC Claro CAD, M co., N co., G co.

High wear resistance makes long-term use due to the high resistance to chewing and surface wear by food or toothpaste.

Fracture Toughness

[MPa·m$^{1/2}$] — axis: 0, 0.5, 1.0, 1.5, 2.0, 2.5
Bars: MAZIC Claro CAD, M co., S co., G co.

High fracture toughness decreases possibility of fracture by shock and others.

Comparison of Process-ability

Other company   MAZIC Claro CAD

Sophisticated and refined results compared to other materials.
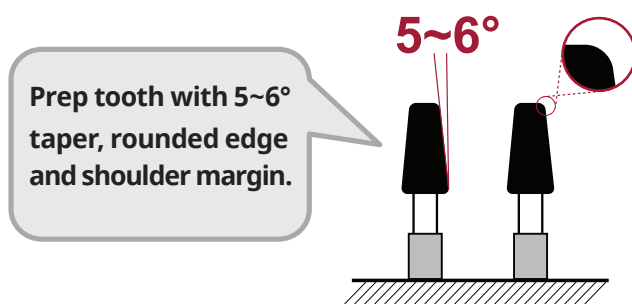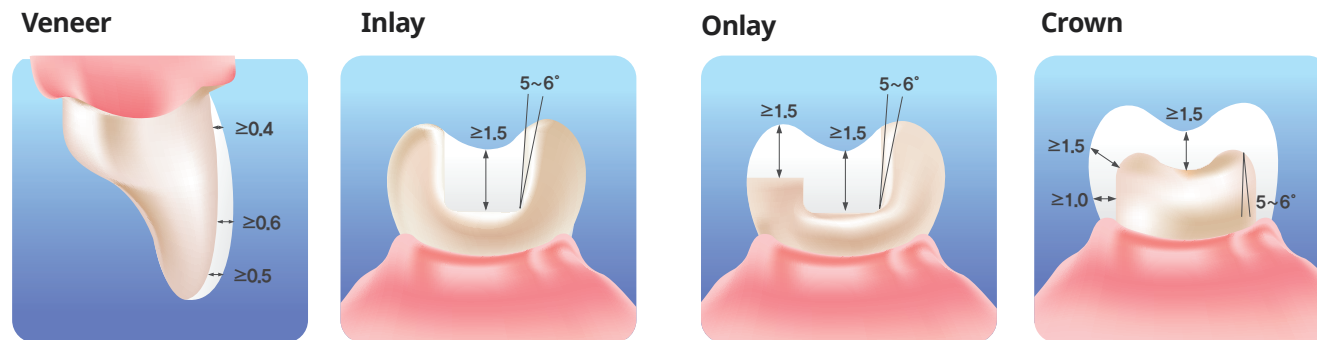
Comparison of Fluorescence

Natural teeth   MAZIC Claro CAD   Zirconia

Suitable for esthetic prosthesis by natural tooth-like fluorescence of MAZIC Claro CAD compared to zirconia.

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Preparation Guidelines

Veneer

Inlay

5~6°
≥1.5

Onlay

5~6°
≥1.5
≥1.5

Crown

≥1.5
≥1.5
≥1.0
5~6°

≥0.4
≥0.6
≥0.5

5~6°

Prep tooth with 5~6° taper, rounded edge and shoulder margin.

- MAZIC Claro CAD follows a prep-guideline of all ceramics restoration.
- Inside of the edge and angle should be round.
- It is recommendable to prep rounded shoulder and chamfer.
- The numerical values in guide-lines are the minimum thickness of prosthesis by MAZIC Claro CAD.
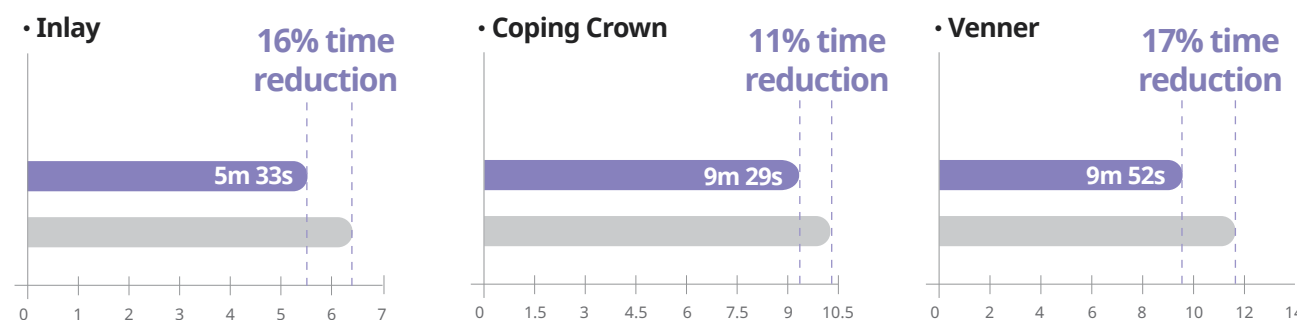
☑ **Check Point!**

Good

- In case of crown, prep tooth with 5~6° taper, rounded edges and shoulder margin.
- Remove residues(temporary cement, tooth-debris and scanning spray) by a brush or soft pumice.
- Gently clean with water and blow dry by air. (Do not dry completely)

Bad

- Do not use chemicals after prep. (Example : EDTA, CHX, Bicarbonate, Hydrogen peroxide, Hyper-esthetic agent)
- Do not use laser etching.
- Do not use temporary cement in types of eugenol affiliation.

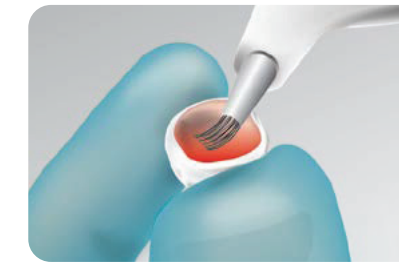## Fast Process-ability of MAZIC Claro CAD

■ *MAZIC* Claro CAD   ■ Company I

- **Inlay**

16% time reduction

5m 33s

0 1 2 3 4 5 6 7

- **Coping Crown**

11% time reduction

9m 29s

0 1.5 3 4.5 6 7.5 9 10.5

- **Venner**

17% time reduction

9m 52s

0 2 4 6 8 10 12 14

Cementation Guidelines

1. Intraoral Try-in
If necessary, adjust the surface with a diamond bur.

2. Etching
Etch inside of prosthesis with 5% of Hydrofluoric acid for 20 sec. and clean by neutralizing agent.

3. Silanate
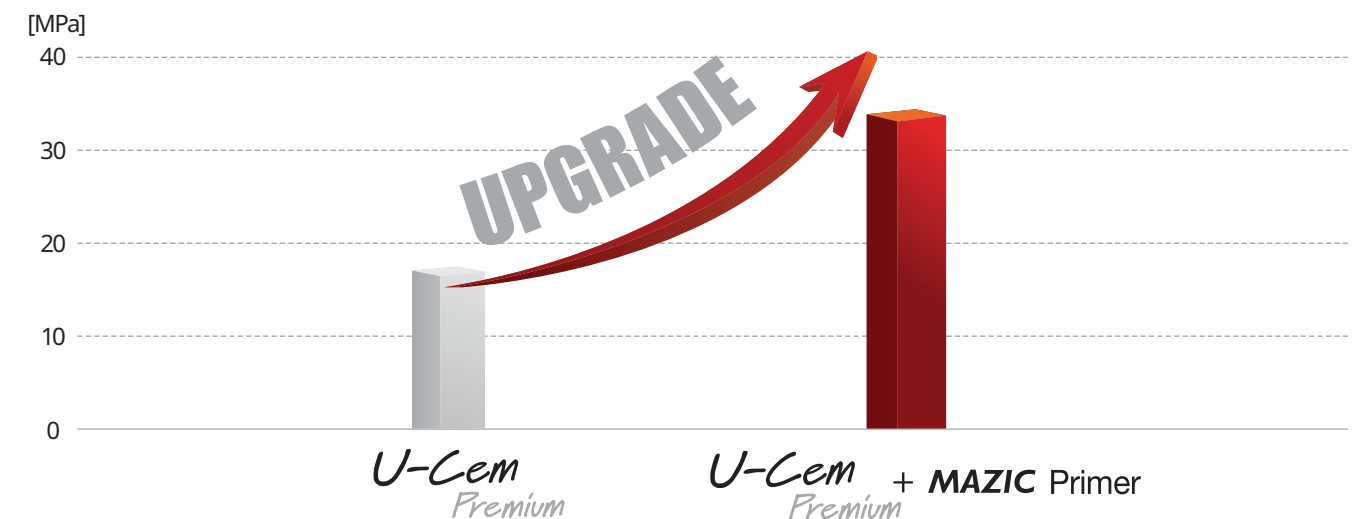Before cementation, apply silane primer and dry for 60 sec.

4. Cementation
Apply high performance self- adhesive or adhesive resin cements.

5. Final Restoration
Hold restorations in place until cement sets. And remove excess cement.

Cement

Primer

MAZIC Claro CAD Bonding Strength

[MPa]

40

30

20

10

0

UPGRADE

U-Cem Premium

U-Cem Premium + *MAZIC* Primer

MAZIC Claro CAD Crystallization Schedule

Entry Temp. (℃)	Closing Time (min.)	Heating Rate t₁ (℃ /min.)	Final Temp T₁ (℃)	Holding Time. H₁ (min.)	Heating Rate t₂ (℃ /min.)	Final Temp T₂ (℃)	Holding Time. H₂ (min.)	Vacuum 1 1₁(℃) 1₂(℃)	Vacuum 2 2₁(℃) 2₂(℃)
400	06:00	90	820	00:10	30	840	07:00	550 820	820 840

Clinical Cases

MAZIC Claro CAD has the applications in single restoration unit such as Inlays, Onlyas, Venners, Full Crown and Implant Crown.

Case 1

Case 2

Case 3

Case 4

Case 5

Order Information

Size (W×L×H, mm)			Transcluency Level				
C14(14.5×12.4×18)		HT		LT		MO	HO

TYPE	SHADE	PRODUCT CODE		TYPE	SHADE	PRODUCT CODE		TYPE	SHADE	PRODUCT CODE	
HT	A1	MCC14-HTA1	MAZIC Claro CAD/CAM HT A1	LT	A1	MCC14-LTA1	MAZIC Claro CAD/CAM LT A1	MO	MO 0	MCC14-LMO0	MAZIC Claro CAD/CAM MO 0
	A2	MCC14-HTA2	MAZIC Claro CAD/CAM HT A2		A2	MCC14-LTA2	MAZIC Claro CAD/CAM LT A2		MO 1	MCC14-LMO1	MAZIC Claro CAD/CAM MO 1
	A3	MCC14-HTA3	MAZIC Claro CAD/CAM HT A3		A3	MCC14-LTA3	MAZIC Claro CAD/CAM LT A3		MO 2	MCC14-LMO2	MAZIC Claro CAD/CAM MO 2
	A3.5	MCC14-HTA5	MAZIC Claro CAD/CAM HT A3.5		A3.5	MCC14-LTA5	MAZIC Claro CAD/CAM LT A3.5		MO 3	MCC14-LMO3	MAZIC Claro CAD/CAM MO 3
	A4	MCC14-HTA4	MAZIC Claro CAD/CAM HT A4		A4	MCC14-LTA4	MAZIC Claro CAD/CAM LT A4		MO 4	MCC14-LMO4	MAZIC Claro CAD/CAM MO 4
	B1	MCC14-HTB1	MAZIC Claro CAD/CAM HT B1		B1	MCC14-LTB1	MAZIC Claro CAD/CAM LT B1				
	B2	MCC14-HTB2	MAZIC Claro CAD/CAM HT B2		B2	MCC14-LTB2	MAZIC Claro CAD/CAM LT B2	TYPE	SHADE	PRODUCT CODE	
	B3	MCC14-HTB3	MAZIC Claro CAD/CAM HT B3		B3	MCC14-LTB3	MAZIC Claro CAD/CAM LT B3	HO	Opal 1	MCC14-LOP1	MAZIC Claro Press Opal 1
	B4	MCC14-HTB4	MAZIC Claro CAD/CAM HT B4		B4	MCC14-LTB4	MAZIC Claro CAD/CAM LT B4		Opal 2	MCC14-LOP2	MAZIC Claro Press Opal 2
	C1	MCC14-HTC1	MAZIC Claro CAD/CAM HT C1		C1	MCC14-LTC1	MAZIC Claro CAD/CAM LT C1				
	C2	MCC14-HTC2	MAZIC Claro CAD/CAM HT C2		C2	MCC14-LTC2	MAZIC Claro CAD/CAM LT C2				
	C3	MCC14-HTC3	MAZIC Claro CAD/CAM HT C3		C3	MCC14-LTC3	MAZIC Claro CAD/CAM LT C3				
	C4	MCC14-HTC4	MAZIC Claro CAD/CAM HT C4		C4	MCC14-LTC4	MAZIC Claro CAD/CAM LT C4				
	D2	MCC14-HTD2	MAZIC Claro CAD/CAM HT D2		D2	MCC14-LTD2	MAZIC Claro CAD/CAM LT D2				
	D3	MCC14-HTD3	MAZIC Claro CAD/CAM HT D3		D3	MCC14-LTD3	MAZIC Claro CAD/CAM LT D3				
	D4	MCC14-HTD4	MAZIC Claro CAD/CAM HT D4		D4	MCC14-LTD4	MAZIC Claro CAD/CAM LT D4				
	BL1	MCC14-HBL1	MAZIC Claro CAD/CAM HT BL1		BL1	MCC14-LBL1	MAZIC Claro CAD/CAM LT BL1				
	BL2	MCC14-HBL2	MAZIC Claro CAD/CAM HT BL2		BL2	MCC14-LBL2	MAZIC Claro CAD/CAM LT BL2				
	BL3	MCC14-HBL3	MAZIC Claro CAD/CAM HT BL3		BL3	MCC14-LBL3	MAZIC Claro CAD/CAM LT BL3				
	BL4	MCC14-HBL4	MAZIC Claro CAD/CAM HT BL4		BL4	MCC14-LBL4	MAZIC Claro CAD/CAM LT BL4				

Product Line-up

Nano-hybrid Ceramic

MAZIC Duro

Nano hybrid ceramic takes advantage of both elasticity, easy workability from the advantage of high-density hardening matrix and the strength, discoloration resistance and esthetics from the advantage of ceramic.

Long-term Temporary Restorative Resin Blank

MAZIC Pro

The next-generation in hybrid temporary restorative material consists of 10㎜ fine-particles and pearl type polymer. And it has a different aesthetic and workability compared to conventional PMMA for temporary prosthesis manufacturing.

Zirconium Oxide

MAZIC Zir

The zirconia stabilized by yttrium oxide protects the material against cracks and increases the tensile and compressive strength. MAZIC Zir consists of 3 types of tranlucency according to purpose of use and it provides various shades and shapes.

Self-Adhesive Universal Resin Cement

U-Cem Premium

U-Cem Premium is a dual-cured self adhesive resin cement that requires no pretreatment. This material shows high bondin strength on various prosthesis and no micro-leakage. Also, it is easy to use and to remove excess cement.

Surface Pretreatment Primer

MAZIC Primer

Optimized for the MAZIC sereis and MAZIC Cem

MAZIC Primer improves bonding strength between resin cement and indirect restoration such as zirconia, metal glass ceramic, lithium disilicate glass ceramic and composite resin.

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Lithium Disilicate Glass Ceramic for CAD/CAM

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