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## LITHIUM DISILICATE

### GLASS CERAMICS

Measurements C14 and B40 in two types of translucency High translucency and Low translucency in VITA CLASIC range of colors suitable for design of individual crowns in anterior and posterior sector, inlay / onlay inlays, bridges, crowns on implants and veneers providing an adequate adhesion in each restoration and being able to withstand a flexural force of 400 + -60 Mpa once crystallized at a temperature of 840-850°C.



### Colors / Application

All the colors of the VITA CLASSIC scale. Translucent LT or HT.



### Products

Boxes with 5 units.  
MaxCAD - Packaging.



### High Quality

- Premium Product -  
Maxcad Dental Supplies.

### Contact



[maxcadinc.com](http://maxcadinc.com)



[info@maxcadinc.com](mailto:info@maxcadinc.com)



# LITHIUM DISILICATE

## Chemical Composition

SiO <sub>2</sub>	58.5 ~ 72.5%
Li <sub>2</sub> O	13 ~ 15%
K <sub>2</sub> O	3 ~ 5%
Others oxides	7.5% ~ 25%



## Technical Parameters

Density	2.4 ~ 2.6 g/cm <sup>3</sup>
CTE ( 25-500°C )	(8.5-11.0) × 10 <sup>-6</sup> K <sup>-1</sup>
Biaxial flexural strength after sintering	400 ± 60 Mpa
Vickers hardness	5800 ± 400 Mpa
Chemical solubility after sintering	< 100 μg/cm <sup>2</sup>
Press Temperature	910 ~ 920°C

## Biological Properties

Cytotoxicity test	Level 0
Short-term Tests for systemic toxicity(oral route)	None
Anaphylaxis test	None
Hemolysis test	< 5%
Ames Testing	Mutation negative
Oral mucosal irritation test	None

## Indications

Translucency		High Translucency	Low Translucency	Medium Opacity	High Opacity
		←			→ CR
Processing technique	Staining technique	●	●		
	Cut-back technique	●	●		
	Layering technique			●	●
Indications	Thin veneer	✓	✓		
	Veneer	✓	✓		
	Inlay	✓	✓		
	Onlay	✓	✓		
	Partial crown	✓	✓		
	Anterior Crown	✓	✓	✓	✓
	Posterior Crown	✓	✓	✓	✓

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LITHIUM DISILICATE

# FEATURES

## Chemical Composition

SiO <sub>2</sub>	58.5%~72.5%
Li <sub>2</sub> O	13%~15%
K <sub>2</sub> O	3%~5%
Others oxides	7.5%~25%



## Technical Parameters

Density	2.3 ~ 2.6 g/cm <sup>3</sup>
CTE ( 25-500°C )	(8.5-11.0) × 10 <sup>-6</sup> K <sup>-1</sup>
Biaxial flexural strength after sintering	400 ± 60 Mpa
Vickers hardness	5400 ± 400 Mpa
Chemical solubility after sintering	< 100 μg/cm <sup>2</sup>
Crystallization Temperature	840 ~ 850°C

## Biological Properties

Cytotoxicity test	Level 0
Short-term Tests for systemic toxicity (oral route)	None
Anaphylaxis test	None
Hemolysis test	< 5%
Ames Testing	Mutation negative
Oral mucosal irritation test	None

## Indications

Translucency		High Translucency	Low Translucency	Medium Opacity	High Opacity
Processing technique	Staining technique	●	●		
	Cut-back technique	●	●		
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	Veneer	✓	✓		
	Inlay	✓	✓		
	Onlay	✓	✓		
	Partial crown	✓	✓		
	Anterior Crown	✓	✓	✓	✓
	Posterior Crown	✓	✓	✓	✓

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# SPECIFICATION

Applied for		Available shade	Size	Package
	HT	A1/A2/A3/B1/B2/C1/BL1/BL2	D13*10	10pcs/box
	LT	A1/A2/A3/B1/B2/C1/C2/BL1/BL2	D13*10	10pcs/box
	MO	MO1	D13*10	10pcs/box
	HT	A1/A2/A3/A3.5/B1/B2 BL1/BL2	18*15*13	5pcs/box
			40*15*15	4pcs/box
	LT	A1/A2/A3/A3.5/B1/B2 C1/C2/D2/BL1/BL2	18*15*13	5pcs/box
			40*15*15	4pcs/box



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