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가

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가

가

가

Potash Feldspar, Soda Feldspar, Quartz

SiO₂가 50~60%, Al₂O₃가 15~20%, K₂O가 7~11%, Li₂O가 5~7%

Particle Size 10~20μm

Opaque

Dentine(Body) Power,

Enamel Powder

Opaque

Color

Dentine(Body) Powder

Body

Enamel Powder

가

가

가

(: %)														
		SiO ₂	Al ₂ O ₃	K ₂ O	Na ₂ O	B ₂ O	CaO	MgO	SnO ₂	In ₂ O ₃	ZrO ₂	Fe ₂ O ₃	TiO ₂	V ₂ O ₅
Vita	Opaque	52.62	17.05	8.75	7.35	1.30	1.25	0.00	0.21	0.74	1.03	0.034	7.95	0.31
	Dentine	60.47	15.10	9.24	5.93	3.58	1.37	0.43	0.04	0.07	0.78	0.033	0.45	0.03
	Incisal	62.64	15.60	9.57	6.21	3.67	1.38	0.43	0.02	1.10	0.51	0.035	0.46	0.03
Ceramco	Opaque	51.38	12.35	7.88	3.71	0.11	0.86	0.50	23.75	0.82	0.02	0.013	0.00	0.07
	Dentine	66.72	14.25	9.91	5.75	0.00	1.19	0.85	0.69	1.11	0.02	0.043	0.01	0.00
	Incisal	38.21	14.39	10.49	5.47	0.09	1.13	0.83	0.03	1.15	0.00	0.043	0.00	0.00

Matrix

lost-wax

Ca

SiO₂

MgO-MgF₂-SiO₂

β-Li₂O-Al₂O₃-4SiO₂

P₂O₅

CaO-Al₂O₃-P₂O₅

Li₂O-Na₂O-MgO-ZnO-Al₂O₃-TiO₂-SiO₂-F

Apatite

K₂O-MgO-B₂O₃-Al₂O₃-SiO₂-F

Bio-glass

Ca

SiO₂

CaO-P₂O₅

Apatite

K₂O

βCaO

Leucite (: %)											
	SiO2	Al2O3	K2O	Li2O	Na2O			K2CO3	Na2CO3	Li2CO3	Al2O3
	63.0	18.5	13.4	2.5	2.78	0.55	89.1	3.2	-	5.99	1.64
	65.8	15.3	7.1	-	0.1	0.8		6.5	5.5	-	

The diagram illustrates a network of entities and their relationships, primarily centered around the field of Glass-Ceramics. The nodes are distributed across the space, with some appearing multiple times, suggesting different contexts or sub-topics. The connections between nodes are represented by lines, forming a complex web. Key entities include:

- Materials and Processes:** Glass-Ceramics, Pyroceram, Matrix, Glass Matrix, Ceramics, DTA, X-ray.
- Organizations and Individuals:** Corning glass Co., McMillan, Partridge, Hodgson.
- Applications and Products:** Stove, Lazer, Radome, Zero.
- Chemical Formulations:** $\text{LiO}_2\text{-Al}_2\text{O}_3\text{-SiO}_2$.
- Other Entities:** Neo-ceram, Pyroceram, Glass-Ceramics (multiple instances).

The diagram suggests a highly interconnected research or industrial landscape, with many entities having multiple connections to other parts of the network.

가

Glass-Ceramics

가

Glass-Ceramics가

가

(: %)			
SiO ₂	Al ₂ O ₃	K ₂ O	Li ₂ O
50 ~ 60	15 ~ 20	7 ~ 11	5 ~ 7

(: %)						
	SiO ₂	Al ₂ O ₃	K ₂ O	Li ₂ O	Na ₂ O	Others
L - O	62.0	18.5	16.5	0.0	2.5	0.5
L - 2	61.0	18.0	16.0	(2.0)	2.5	0.5
L - 4	60.0	17.5	15.5	(4.0)	2.5	0.5
N - 2	61.0	18.0	16.0	0.0	(4.5)	0.5
N - 4	60.0	17.5	15.5	0.0	(4.5)	0.5

Bio-glass,

Bio-glass

Bio-glass

Bio-glass

Bio-glass

가

가 K₂O-MgF₂-MgO-SiO₂

K₂O-MgF₂-MgO-SiO₂

MgO- Al₂O₃-TiO₂-SiO₂-CaF₂

가

Bio-glass

Bio-glass

Bio-glass

Hench

가

10

가

Bio-

glass

Bio-glass

Ceramics

Glass Ceramics

1012 ~ 1017 Poises

가 0.1 μ m ~ 10 μ m, 가 50 ~ 95%
2 ~ 3

Bio-glass Ceramics

Apatite OH

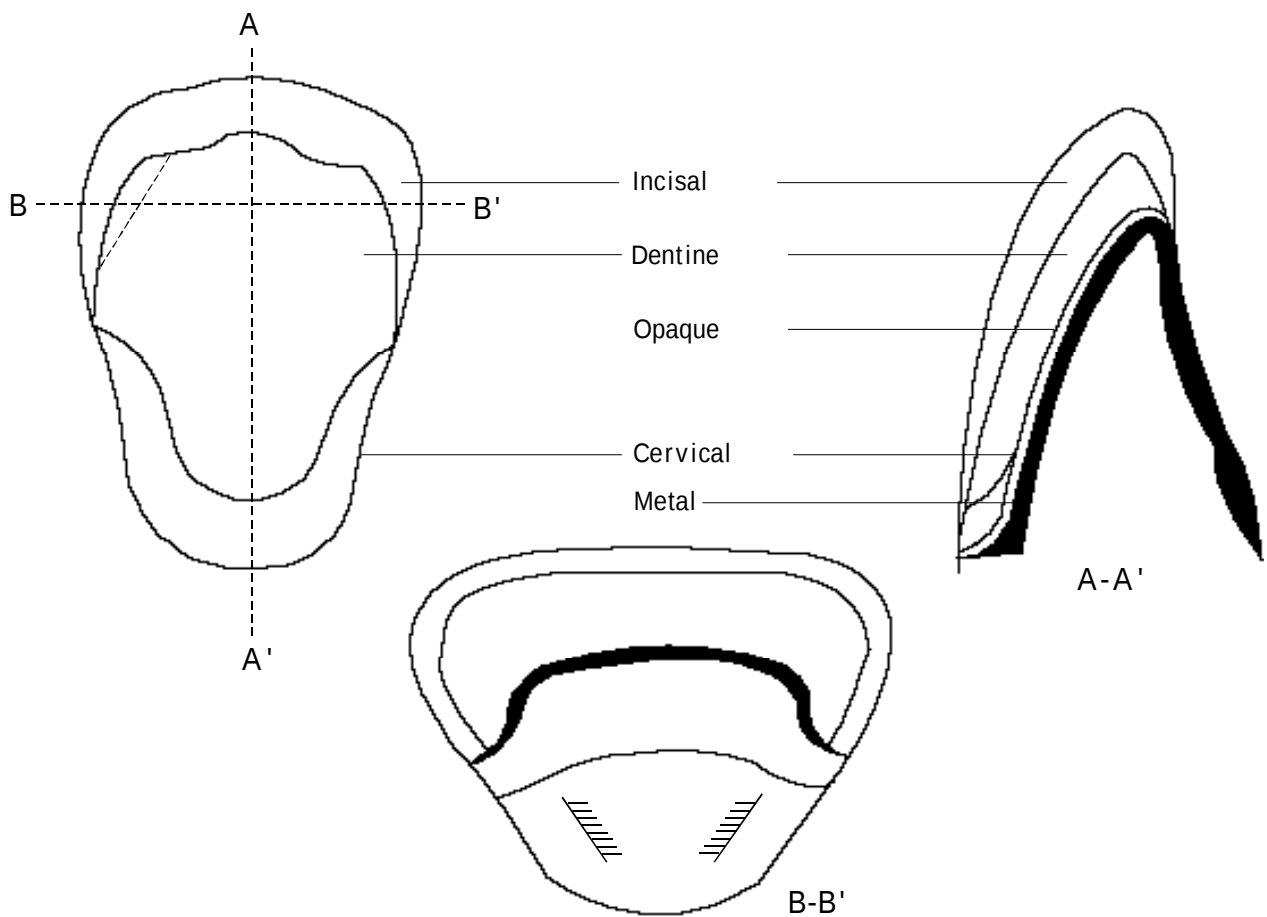
Ca₁₀(PO₄)₆(O, F₂)

가

Na₂O-K₂O-MgO-CaO-SiO₂-P₂O₅- F

Apatite

Na₂O 4.8 wt%, K₂O 0.4wt%, MgO 2.9 wt%, CaO 20.2 wt%, Ca₁₀(PO₄)₂ 25.5 wt%, SiO₂ 46.2 wt%



BiO-glass

Bio-glass Ceramics가

Spin casting

가

MgO-CaO-SiO₂-P₂O₅

1050 ~ 1200

가
Apatite

가

β-wollastonite

가

가 2000Kg/cm²,

가 1 Kg/cm²

94

7

Ceramco,

Vita 3
가
25%

가
Ceramco가
95%

45%

5%

Excelco

Duceram

Vita가

가

90

, 94

가

87

Johnson & Johnson 90%
45%

Opaque

가

Shade

Vita
가

가

Shade

8000

93

7

94

7

20.6%

가

94

93

42.8%

90

5

가

10

가

가 20%

가

Ceramco

2

가