진동기의 단계별 조절이 모형 제작시 기포발생에 미치는 영향에 관한 연구

동우전문대학 치과기공과

Abstract

A Studyy to Effect on the Porosity when Model Making for Control of Vibrator

Lee, Do Kyung

Dept. of Dental Laboratory Technology, Dong-U Junior College

This study was made to effect on the porosity when model making for control of vibrator.

Samples of total 600 were made by plaster and stone divided low, medium and high which is 100 each.

The following results were obtained to observation porosity of surface by eyes.

- 1. Second stage was fewer than third stage, first stage was fewer than third stage in porosity number of plaster model.
- 2. Second stage was fewer than first stage in porosity number of stone model.
- 3. Stone model was fewer than plaster model in porosity number of third stage.

│ .서론 가 ¹²⁾ 가 가		plaster(Korea), stone(G.C) , vibrator(G.C investing machine(whip-mix) 2.실험방법) vacuum
가		1) Mould R.T.V 1300	mould
Ⅱ. 실험재료 및 방	법		
1. 실험재료 및 기구		2) Plaster stone water water measuring jar	,
mould	R.T.V 1300	· · · · · · · · · · · · · · · · · · ·	

Plaster W/P ratro 0.45 30 vacuum investing machine vacuum mixing 7 mould 7 mould 7 mould 7 to 1 (low), 2 (medium), 3 (high) 100 Stone W/P ratio 0.24 plaster 100	
Plaster 1 P-1	1(P-1)
, 2 P-2 , 3 P-3 . Stone S-1, S-2, S-3	1
	1(P-1)
1(P-1)	1(P-1)
1(P-1)	1(P-1)

4)

단 조절

진동, 진폭

frequency amplitude

1단(low)

120,000Hz

-21.8dB

3단(high)

60,000Hz

-17.9dB

2단(medium)

60,000Hz

-20.0dB

2 plaster

가 Plaster

multiple

range test Tukey 3 .

3. Plaster

Mean	Group	2	1	3
1.27	2			
1.80	1			
2.56	3	*	*	

Ⅲ. 실험결과

3 plaster ANOVA (two-2 3 가 , 1 가 3 way) 가 2 가 Stone ANOVA (oneway) **Plaster** 가 가 stone ANOVA (one-way) 가 가

1.

Source of variation	SS	df	MS	F	P-value
Main kind of gypsum	18.38	1	18.38	5.70	0.02**
Effects kind of stage	82.33	2	41.17	12.77	0.00**
Explained	140.35	5	28.07	8.71	0.00**
Residual	1915.25	594	3.22		

?

**P<0.05

2. Plaster

Source	df	SS	MS	F	P-value
Between groups	2	84.09	42.04	10.65	0.00**
Within groups	297	1172.35	3.95		

* *P<0.05

4. Stone

Source	df	SS	MS	F	P-value
Between groups	2	37.89	18.94	7.57	0.001**
Within groups	297	742.90	2.50		

* *P<0.05

Stone multiple range test Tukey 5

5. Stone

Mean	Group	2	3	1
1.10	2			
1.51	3			
1.97	1	*		

5 stone
2 1 가
. 2 3,1 3
. 가 .
plaster stone
. 가 가 . T-test
6 .

6. Plaster stone

1단 -0.68 196.52 0.50 2단 0.73 198 0.47	lue
2당 0.73 198 0.47	
3단 3.78 198 0.00	**

* *P<0.05

Ⅳ.고 찰

가

가 가

1 , 2 , 3

, 가 가

ア・ファイン ア・ファイン

3 stone plaster 가

∨. 결 론

Plaster stone 1 , 2 , 3

1. Plaster 2 3 , 1 3 가 .

2. Stone 2 1 가 가 . 3. 3 stone plaster 가 가 가 Ⅵ**. 연구의 한계** 참 고 문 헌 가 , , p.68, 가 272, 1986. 2. : , , p.40,

가