

# 진동기의 단계별 조절이 모형 제작시 기포발생에 미치는 영향에 관한 연구

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*Abstract*

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

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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.

## I. 서론

가  
가  
가

plaster(Korea), stone(G.C )  
vibrator(G.C ) vacuum  
investing machine(whip-mix)

## 2. 실험방법

### 1) Mould

R.T.V 1300 mould

### 2)

Plaster stone  
water water measuring jar

## II. 실험재료 및 방법

### 1. 실험재료 및 기구

mould

R.T.V 1300

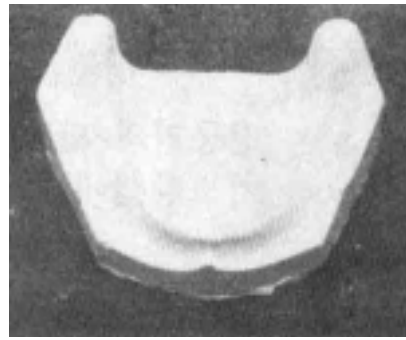
Plaster W/P ratio 0.45 30  
 vacuum investing machine vacuum mixing  
 7 mould 가  
 1 (low), 2 (medium), 3  
 (high) 100

Stone W/P ratio 0.24 plaster  
 100

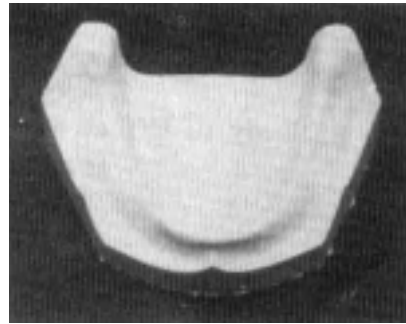
Plaster 1 P-1  
 , 2 P-2 , 3  
 가 P-3 Stone  
 S-1, S-2, S-3

3)

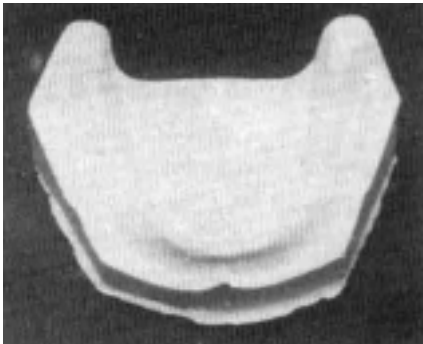
6).



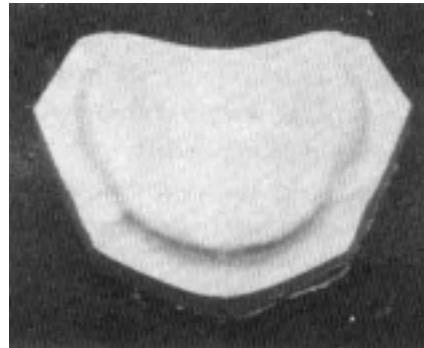
1(P-1)



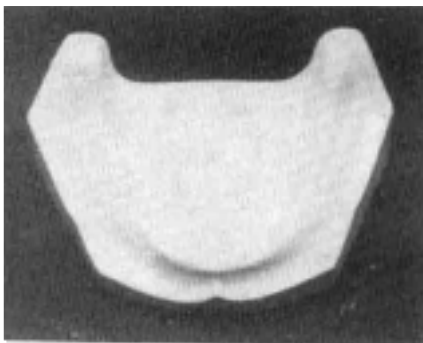
1(P-1)



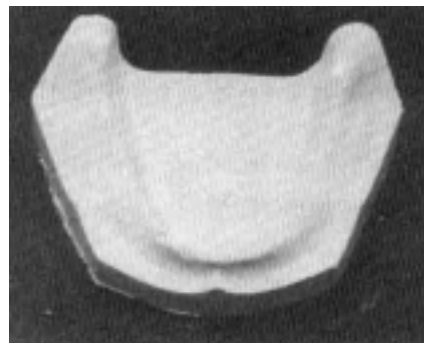
1(P-1)



1(P-1)



1(P-1)



1(P-1)



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

6. Plaster stone

| Source | t-value | df     | P-value |
|--------|---------|--------|---------|
| 1단     | -0.68   | 196.52 | 0.50    |
| 2단     | 0.73    | 198    | 0.47    |
| 3단     | 3.78    | 198    | 0.00**  |

\*\* P<0.05

6 3 stone plaster  
가 가 1 2

IV. 고찰

가 가 가  
가 가  
1 , 2 , 3  
가 가  
ANOVA plaster 2  
3 1 3 가  
stone 2 1  
가 , 3 2  
Plaster stone T-test  
가 3 stone plaster  
stone 2 plaster 2 1 가

V. 결론

Plaster stone 1 , 2 , 3  
100 600  
1. Plaster 가 2 3 , 1 3

2. Stone 가 2 1 가  
 3. 3 가 stone plaster 가 가 .

## VI. 연구의 한계

가  
 가  
 가 .

## 참고문헌

1. : , , , p.68, 272, 1986.
2. : , , , p.40, 65, 1981.