

가 (3)

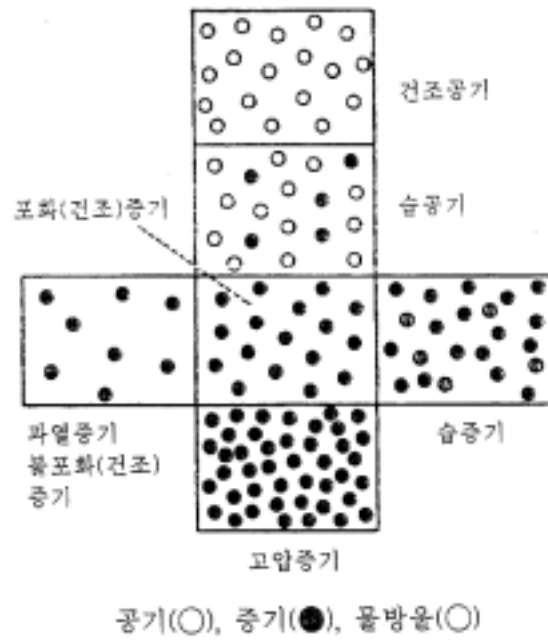
- (6) -

3.4

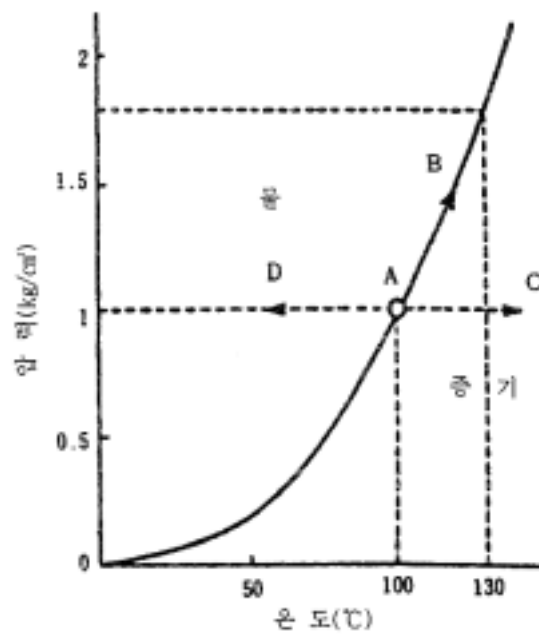
(padding) (dry heat)
(steaming) , , .
(fixing) ,
, (ultrared ray)
(microwave)

3.4.1

, 가 가
, <
3.42> (steam) < 3.43>
,
(baking) (thermosol) 가
가
(saturated vapor) < 3.43>
, 가 가 ,
(printing) (batch) ,
1960 가



< 3.42> 가



A : 포화증기 B : 고압증기
C : 과열증기 D : 습증기

< 3.43>

(moist air), (unsaturated steam)

(wet steam)

(color paste) 가

가

1 (steamer) 가 100

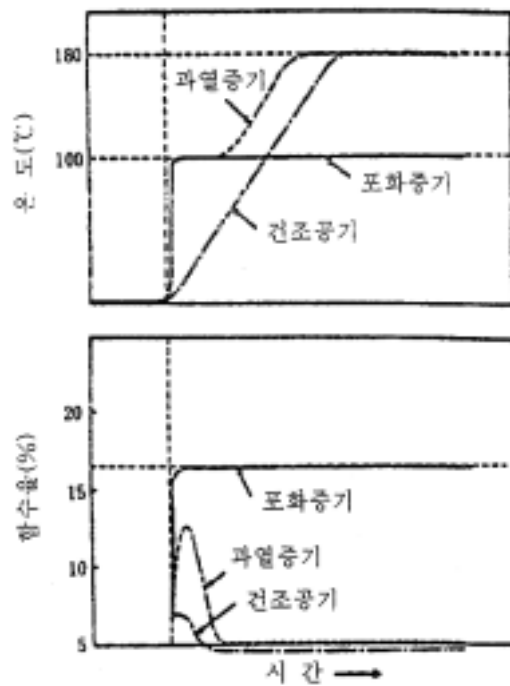
< 3.43> C

(superheated steam)

HT (high temperature steaming) . HT

% 가

가 , (heat setting)



< 3.44>

100, 180

(moisture content) < 3.44>

가 100 , 가 10%

가

가 %

가

가 .

○ (200) : 1.00

O : 13.64

100

가

가 가 ,

가 .

3.4.2

(1)

,

가

가

,

가 < 3.44>

가

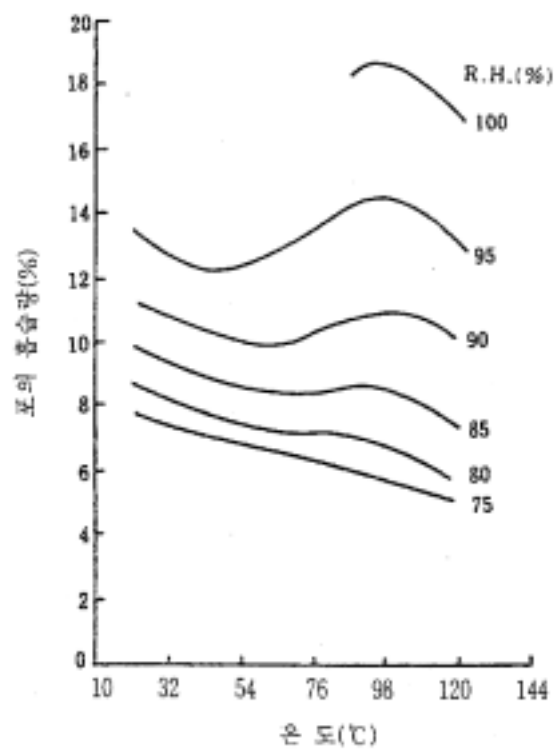
,

< 3.45>

가

,

가



< 3.45>

가

가

가

< 3.46>

가

(2.5%)

가

130

가

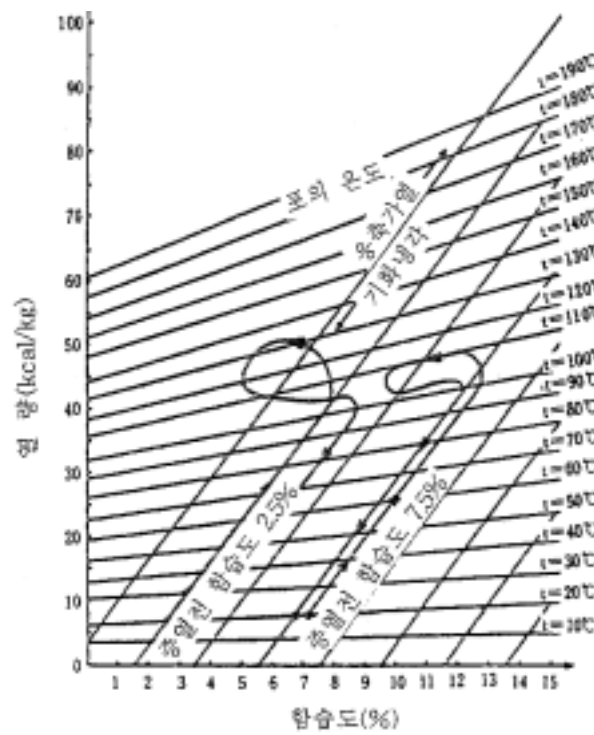
(7.5%

)

110

10

가



< 3.46>

(2)

(steam condensation) 가 , 가

, ,

(heat of dissolution) (heat of reaction) .

가 (heat of wetting)

.

○ (2.5%) : 12cal/g

○ (7.5%) : 6cal/g

○ (13%) : 2cal/g

, () 6,600cal/mol , 6cal/g

. (sulfoxylate) 134kcal/mol

.

가 (exothermic reaction)

.

가 , .

(steam)

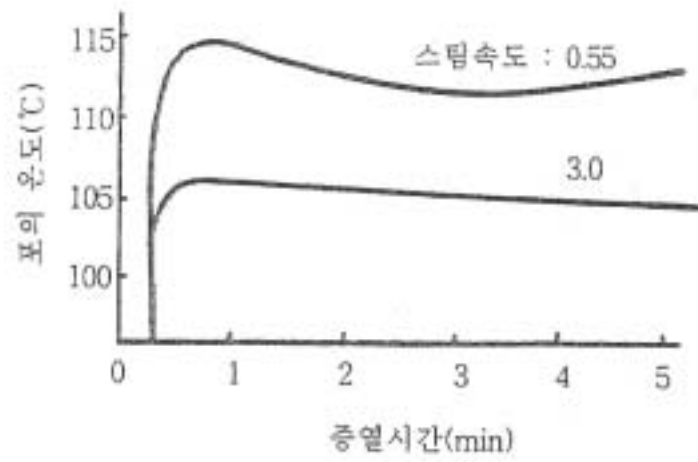
, (convection)

,

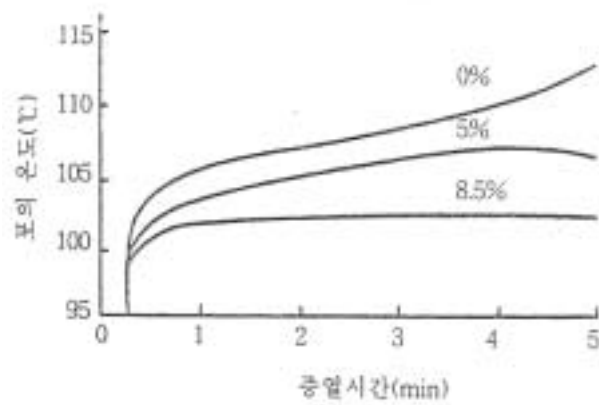
. < 3.47>

가 가

.



< 3.47>
(=)



< 3.48>
()

가

< 3.46> < 3.48>

가 (degree of superheat)가

(blanket)

,

.