

2.4.2 (Fixation)

Cellulose 가

. 가 VS

MCT, MFT, DFCP, DCQ .

가 Alkali .

SE Alkali

가 Alkali 가 Migration

. 2

Alkali Control .

Alkali 가 Cell-O⁻ 가 가 .

OH⁻ 가 가 .

가 .

< 5> .

< 6> Alkali

. Alkali 가 가

.

Na₂CO₃ : 가 pH가

. 가 가 .

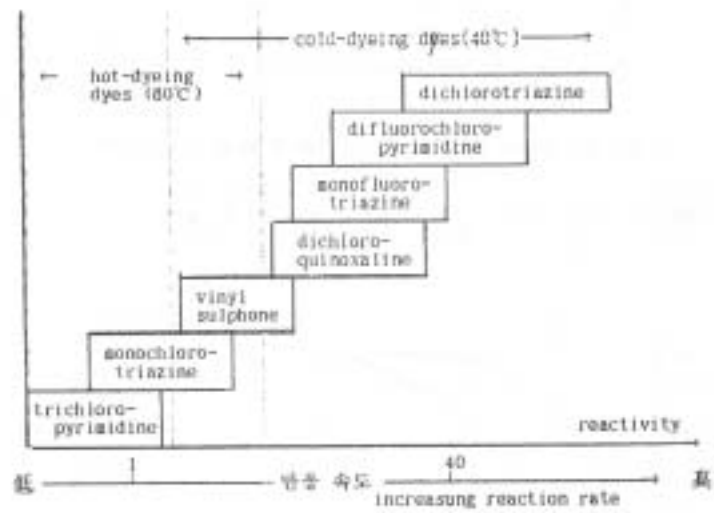
3 : 가

. , , 가

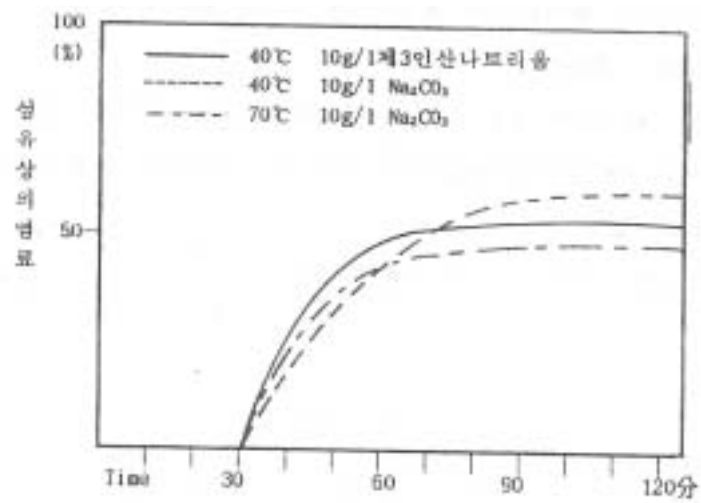
.

NaOH : 가 pH 가 . 가

. pH 가 .
 . 가
 가 가 가 . PH 11
 가 가 . PH가 가

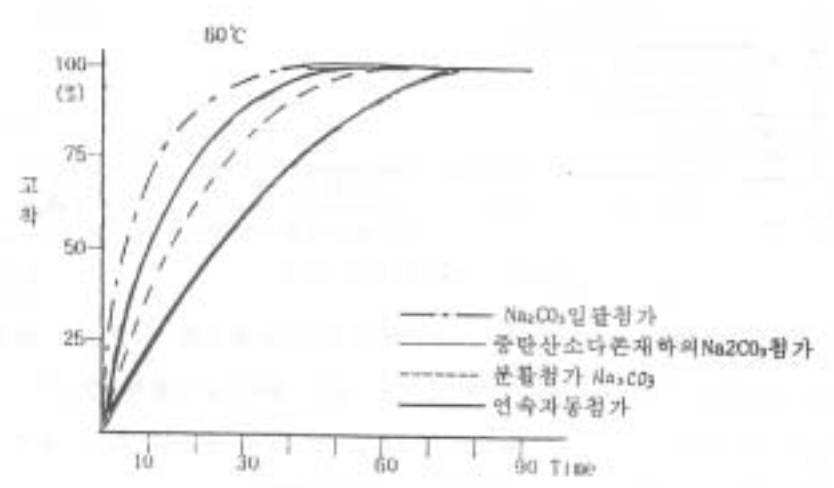


< 5>



< 6> Alkali

Alkali 가 < 7>



< 7> Alkali 가

50%가 () T50

가 Blue .

< 3> Blue T50

C.I. No.	Alkali		T50 min
Blue 171	가	10 Linear	6.0
Blue H		10 Linear	11.0
Blue 184		30 70% Progressive	10.0
Blue 221		20 3	3.0
Blue 225		30 70% Progressive	3.5
Blue 238		45 70% Progressive	14.0

Alkali 가

가 .

Rope 2-3 .

T50 3 2 Alkali 50%

가 . Package , In → Out / Out

→ In In → Out 3-4 , Out → In 6-7 10 1

. 50% In → Out Cycle

, Alkali . ,

, Alkali T50 10

, Piece 5 Rope Package

In → Out / Out → In 1 Cycle .

1 : 70-80%

M.I : 80-90%

2 : 90%

T50 : 10

.

(1) 가

가

. Monofunctional Reactive Dyes 70% .

Amine 가 가 ,

Starch, PVA, CMC .

(2)

H₂O₂ 가 H₂O₂

. H₂O₂

, .

2.4.3 가

가

가 .

Sample 가 .

)

2% owf

40-50 g/l

Na₂CO₃ 15 g/l

0.4-0.6% 가

, 2/3

가 13 g/l, Na₂CO₃ 5 g/l

.

2.4.4

Energy Cost Down, ,

1:3 – 6 .

1)

Color Yield가

Alkali 가

Energy

2)

3)

$$\left(\begin{array}{c} \\ , \\ , \\ \end{array} \right)$$

pH

Control

2.5

2.5.1 Lot

0.25 E 0.3 (Maker Lot E 0.9 ,).

2.5.2

Cold / Warm

. Mercerized Cotton

Garment Dyeing 가
가 .

가

Micro Rayon . Rayon

- Type .

2.5.3

(1)

All in One Cool Down Standard
() Migration 가 Program
Maker

.

(2) Cold Pad Batch Process Cellulose

.

:

Airing Ageing
Pad -----> Batch -----> Soaping

1) Padding

x g/l

1-2 g/l

Alkali Recipe

25

2) Airing : Padding Batching

Swelling

가 . 20ch

. 2-3 Batching Tension

가 .

3) Batching

Tension Control .

Seam Marking 가 .

4) Ageing

Alkali . Padding

Ageing Room 5 . Listing

.
Test

.
< Test >
)

)

Micro-Wave Oven

Watt 가 . Micro-Wave 10 Plasric Bag

≡ ; .

Dry Oven

70 30-60 .

Test 350g/m² Corduroy Velvet

가 .

.

) Mangle

) Pick-up 70% 가 .

) Combination

)

) Seam Marking

)

)

) Mangle

2.6

2.6.1 Jet, Winch

- 가 Overflow Cold Water

- 60-80

- Boiling
- 60-80
- Cold Water

2.6.2 Rope Washer Open Width Washer

(8 Bath)

- No. 1 Bath : 50 Overflow
- No. 2 Bath : 60-80 hot Water
- No. 3-6 Bath : Boiling
- No. 7 Bath : Hot(60-80)
- No. 8 Bath : Cold

가 가

.

2.7 (結論)

.
가 .

2.7.1

1)
가

	Rayon	No
Micro > Lyocell > Polynosic > Silketed > Silketed		
Rayon (Tencel)	Modal	Cotton Cotton
>	.	
Cotton		
New Rayon		.
2) ()	Original	Lot
	가 E	0.9 (
E 0.3)	.	
3)		
.	.	
marks & Spencer	Buyer	
.		
4) Cost		
가	가	,
가	.	

가 ,

가 .

2.7.2

(1)

1) New Rayon Rayon

.

2) Migration .

3) 가

.

4) Rope

.

(2)

1) Hot Type

Program .

2) . .

3) Alkali Control .

4) 가

가 Rope Pad-Batch

.

2.8 (結言)

New Rayo . 가 가

. Know-How Tencel
New Rayon 가 가
가 .