

1.

가 (Zincate) 가 (sodium aluminate)

/

/

가

2.

2.1.

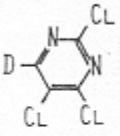
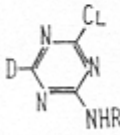
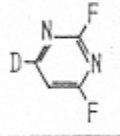
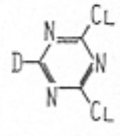
, 가 (: 69×69/inch) .

2.2.

가 가 1 .

< 1>

가

칼러 인덱스 넘버	基本構造式
Red 86 Blue 18	 TRICHLORO - PYRIMIDINE
Red 24 Blue 46 Blue 39	 MONOCHLORO- TRIAZINE
Blue 20 Yellow 17	$D-SO_2 \cdot CH=CH_2$ $D-SO_2-(CH_2)_2-OSO_3Na$ B-SULPHATOETHYLSULPHONE (VINYL SULPHONE)
Blue 65 Red 89 Blue 28	 DIFLUORO- PYRIMIDINE
Blue 4 Red 5	 DICHLORO- TRIAZINE

2.3.

가 44~50°Be

) (°Be) : (Baume)

°Be

가

10%

0 °Be,

10 °Be

$$d = \frac{144.3}{144.3 + B}$$

B = ^{10}Be , d = .

2.4. 가

Invadine BL(Ciba-Geigy)

2.5.

가 .

2.6

80%

25

2

80

25

30

90

3g/l

1g/l

(nonionic detergent) 1g/l

2.7.

Pretema

Spectromat FS-2

(Spectrophotometer)

$$K/S = \frac{[1 - R]^2}{2R} - \frac{[1 - R_0]^2}{2R_0}$$

R =

R₀ =

K =

S =

3.

(short bath)

가

pH

1

2

2

가

가

3.1. 1

가

가

5g/l C.I. Reactive Red 5, 20g/l , 2g/l Invadine BL

2~15g/l

pH 12

가

가

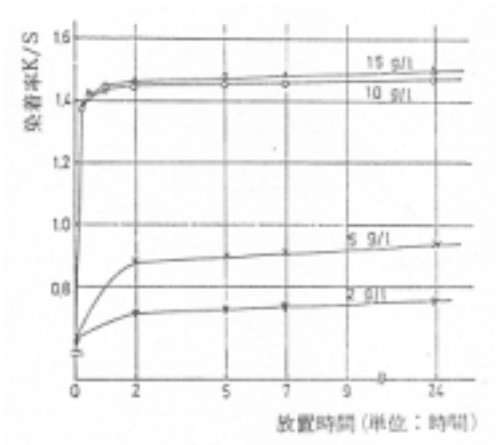
가

1

1 (K/S)

10g/l

2
 ,
 ,



< 1> 가

[5g/l Reactive Red 5, 20g/l , 2g/l Invadine BL, 5% PH 12]

1
 : 80%

가 2 .

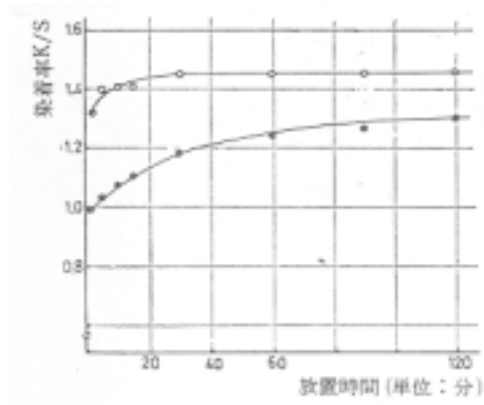
가 K/S가

3 가 pH

가 . 25

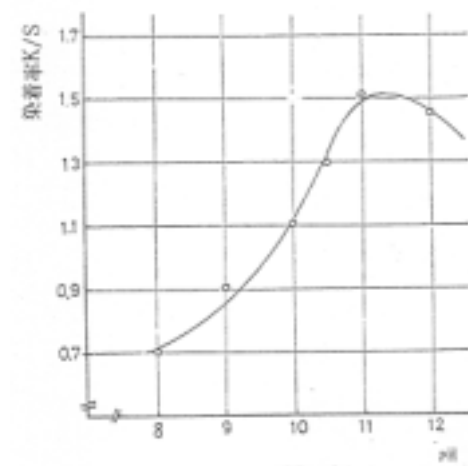
30 80 . 3 pH11 가 가

pH11 12



< 2>

:
:
: 1



< 3>

가 가 ,
가 K/S 1
 , 30

2 1

2

가

< 2> 가

(1)

칼러인덱스 넘버	染色率 (比率K/S)	
	硅酸塩/소다 (pH 11)	NaOH (pH 11)
Red 86	0,84	0,66
Blue 18	0,66	0,41
Red 24	2,34	1,96
Blue 46	0,47	0,27
Blue 39	1,71	1,01
Blue 20	4,92	2,06
Yellow 18	0,66	0,41
Blue 65	1,45	0,64
Red 89	1,00	0,55
Blue 28	5,66	3,60
Blue 4	3,80	1,64
Red 5	1,51	1,24

* : 5g/l , 20g/l , 2g/l Invadine BL, : 80%
25 30 3-5 80

3.2. 2

80%

80

가 13~50°Be

0~4

5

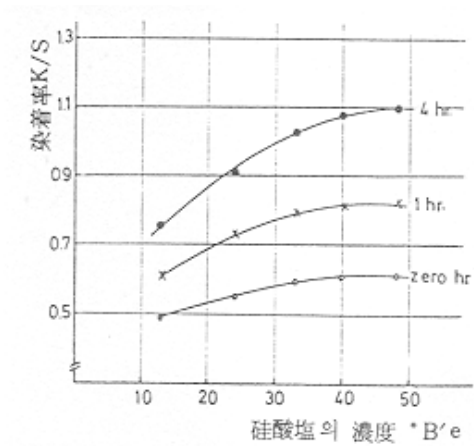
4~8

2

1

1

가



< 4>

가

K/S

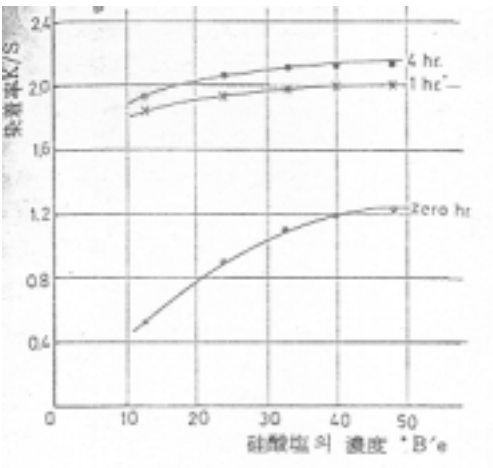
2

:

1) 5g/l Reactive Red 86, 20g/l , 2g/l Invadine BL

2) 0~4

, ,



< 5>

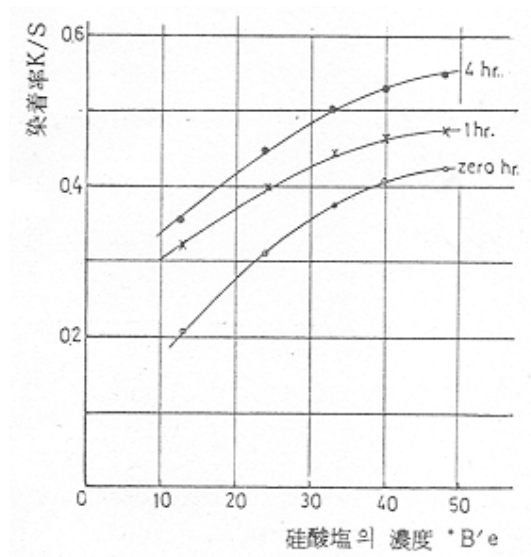
가

K/S

2

Reactive Red 2, 4,

4

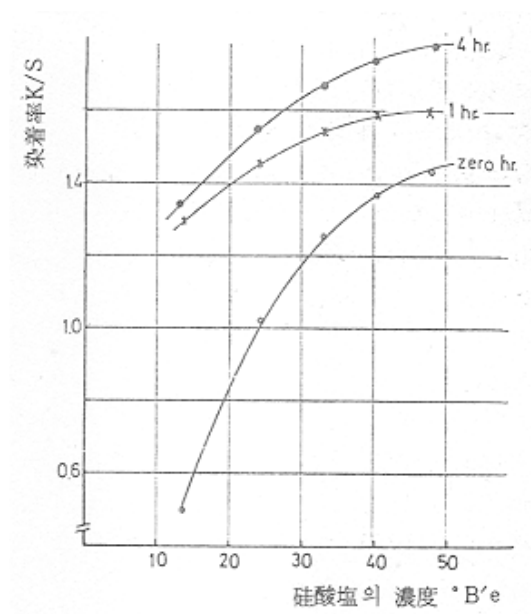


< 6> 가 K/S

2

Reactive Yellow 17

4

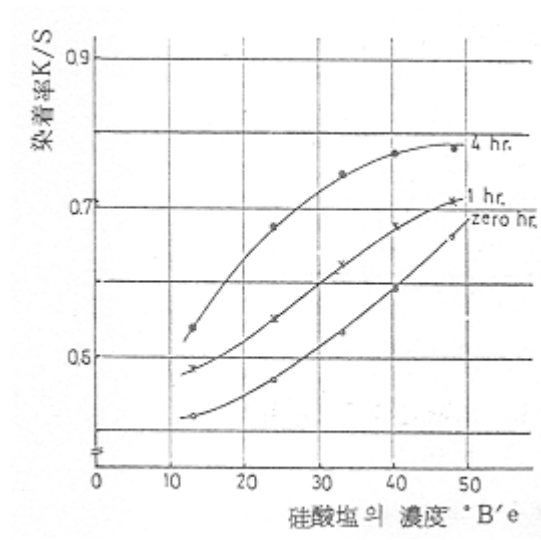


< 7> 가 K/S

2

Reactive Blue 65

4



< 8> 가 K/S

2

Reactive Blue 4

4

가

3.3.

가

4~15%

가

80%

40°Be

2

2

2

15

9

C.I. Reactive Yellow 17

2

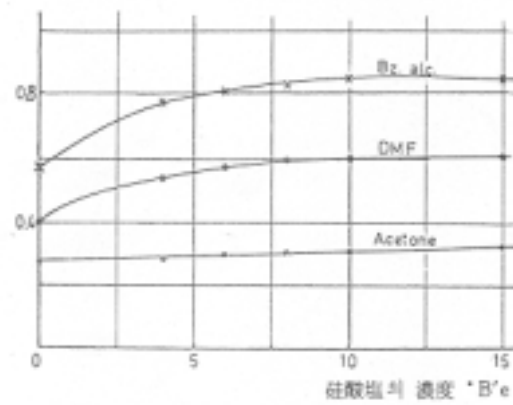
(benzyl alcohol)

(Dimethyl formamide)

(acetone)

가

가



< 9>

°Be

2

5g/l Reactive Yellow 17. 20g/l

2g/l Invadine BL. 4-15%

Bz. Alc : (Benzyl alcohol)

DMF : N. N' (Dimethyl formamide)

9

가

5~8

(5%)

2

3

가

< 3> 가 가

2 *

칼러인덱스번호		染着率 (比率K/S)	
		5 %의 벤질 알코올	溶劑를 使用 하지않았을때
Red	86	1,86	1,06
Red	24	2,43	2,00
Yellow	17	0,80	0,54
Blue	65	1,95	1,74
Blue	4	1,04	0,74

* 5g/l , 20g/l , 2g/l Invadine BL, 5% , 80%,
40°Be , 2 , 15 , ,

가 (mecahnism)

(film)

가

가

4.

가 12 가 가

1) 가 (sodium hydroxide)

2) 1 가

3) 2 1

4)