

1.3 (綿紡織物)

1.3.3. (指標)

1.3.3.3. 가 (等價比率)

2 ,

가 .

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가

가 ,

가 .

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가

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가

가

가

가

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가

가

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1980

가

80

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가

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,

1990

1,768

1

가

,

1,130

,

1,900

11

3,430

1983

27,000

20%

가

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,

ppm(picks per minute)

1/3~1/4

.

4 가

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,

가

가

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(1)

1 1 (8

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$$(\text{yds}/8\text{h}) = \frac{\text{ppm} \times 60 \times 8 \times}{\times 36}$$

$$= \frac{1}{\left( \frac{1}{1} \right)} = \frac{1}{1}$$

ppm, .

ppm,

,

.

L<sub>1</sub> : , L<sub>2</sub> : , L<sub>3</sub> :

, L<sub>4</sub> : , L<sub>5</sub> :

, L<sub>6</sub> : , (L%) 6

. E(%) .

$$E(\%) = 100-L(\%)$$

,

(連經) , 가

1:5, 1:7 가 .

가 P/C(65/35)

$$47\text{in} \times \frac{45 \times 45}{110 \times 76} .$$

1-22 1988 , 1989

.

< 1-22>

(airjet )

가 ppm : 584

$$\frac{\times}{\times}$$

| No. | 직물폭(inch) | 구 조                                      | 원 료        | 조 직         | 환산율   |
|-----|-----------|------------------------------------------|------------|-------------|-------|
| 1   | 47        | $\frac{45 \times 45}{110 \times 76}$     | P/C(65/35) | plain       | 1.000 |
| 2   | 62        | $\frac{50 \times 50}{96 \times 72}$      | P/CM       | plain       | 0.953 |
| 3   | 63        | $\frac{45 \times 45}{110 \times 76}$     | P/CM       | plain       | 1.007 |
| 4   | 63        | $\frac{20 \times 20}{60 \times 60}$      | CD         | plain       | 0.785 |
| 5   | 63        | $\frac{45/2 \times 45/2}{100 \times 55}$ | P/CM       | plain       | 0.720 |
| 6   | 67        | $\frac{45 \times 45}{110 \times 76}$     | P/CM       | plain       | 1.009 |
| 7   | 67        | $\frac{40 \times 40}{120 \times 110}$    | CM         | plain       | 1.491 |
| 8   | 67        | $\frac{40 \times 40}{120 \times 100}$    | CM         | plain       | 1.356 |
| 9   | 63        | $\frac{20 \times 20}{108 \times 56}$     | CD         | twill(3/1)  | 0.754 |
| 10  | 48        | $\frac{40 \times 40}{120 \times 88}$     | CM         | plain       | 1.180 |
| 11  | 60.5      | $\frac{16 \times 16}{90 \times 64}$      | CD         | sateen(4/1) | 0.845 |
| 12  | 61        | $\frac{42/2 \times 42/2}{112 \times 55}$ | C/P(60/40) | plain       | 0.723 |
| 13  | 61        | $\frac{45/2 \times 45/2}{100 \times 56}$ | P/C(65/35) | plain       | 0.723 |
| 14  | 61        | $\frac{34/2 \times 34/2}{100 \times 48}$ | C/P(60/40) | plain       | 0.629 |
| 15  | 61        | $\frac{35/2 \times 35/2}{112 \times 54}$ | P/C(65/35) | twill(2/1)  | 0.710 |
| 16  | 61        | $\frac{35/2 \times 35/2}{100 \times 48}$ | P/C(65/35) | plain       | 0.629 |
| 17  | 61        | $\frac{34/2 \times 34/2}{112 \times 54}$ | P/C(65/35) | twill(2/1)  | 0.710 |
| 18  | 61        | $\frac{45/2 \times 45/2}{112 \times 56}$ | P/C(65/35) | plain       | 0.736 |
| 19  | 62        | $\frac{34 \times 34}{124 \times 65}$     | P/C(65/35) | plain       | 0.861 |

(2)

가 ,

, 10,000yds

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10,000yds

8 (yds) , 10,000yds

(L<sub>M</sub>) .

$$L_{M( )} = \frac{10,000yds}{1}$$

가 10,000yds

(屑物 · waste) 가

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. 가 .

10,000yds

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P65/C35, 47in ×  $\frac{45 \times 45}{110 \times 76}$  ,

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$$= \frac{10,000yds}{10,000yds}$$

&lt; 1-23&gt;

(airjet )

가 ppm : 584

$$\frac{\times}{\times}$$

| No. | 직물폭(inch) | 구 조                                      | 원 료        | 조 직         | 환산율   |
|-----|-----------|------------------------------------------|------------|-------------|-------|
| 1   | 47        | $\frac{45 \times 45}{110 \times 76}$     | P/C(65/35) | plain       | 1.000 |
| 2   | 62        | $\frac{50 \times 50}{96 \times 72}$      | P/CM       | plain       | 0.998 |
| 3   | 63        | $\frac{45 \times 45}{110 \times 76}$     | P/CM       | plain       | 1.095 |
| 4   | 63        | $\frac{30 \times 30}{60 \times 60}$      | CD         | plain       | 0.970 |
| 5   | 63        | $\frac{45/2 \times 45/2}{100 \times 55}$ | P/CM       | plain       | 1.029 |
| 6   | 67        | $\frac{45 \times 45}{110 \times 76}$     | P/CM       | plain       | 1.119 |
| 7   | 67        | $\frac{40 \times 40}{120 \times 110}$    | CM         | plain       | 1.529 |
| 8   | 67        | $\frac{40 \times 40}{120 \times 100}$    | CM         | plain       | 1.433 |
| 9   | 63        | $\frac{20 \times 20}{108 \times 56}$     | CD         | twill(3/1)  | 1.189 |
| 10  | 48        | $\frac{40 \times 40}{120 \times 88}$     | CM         | plain       | 1.174 |
| 11  | 60.5      | $\frac{16 \times 16}{90 \times 64}$      | CD         | sateen(4/1) | 1.213 |
| 12  | 61        | $\frac{42/2 \times 42/2}{112 \times 55}$ | C/P(60/40) | plain       | 1.092 |
| 13  | 61        | $\frac{45/2 \times 45/2}{100 \times 56}$ | P/C(65/35) | plain       | 1.026 |
| 14  | 61        | $\frac{34/2 \times 34/2}{100 \times 48}$ | C/P(60/40) | plain       | 1.048 |
| 15  | 61        | $\frac{35/2 \times 35/2}{112 \times 54}$ | P/C(65/35) | twill(2/1)  | 1.170 |
| 16  | 61        | $\frac{35/2 \times 35/2}{100 \times 48}$ | P/C(65/35) | plain       | 1.039 |
| 17  | 61        | $\frac{34/2 \times 34/2}{112 \times 54}$ | P/C(65/35) | twill(2/1)  | 1.180 |
| 18  | 61        | $\frac{45/2 \times 45/2}{112 \times 56}$ | P/C(65/35) | plain       | 1.080 |
| 19  | 62        | $\frac{34 \times 34}{124 \times 65}$     | P/C(65/35) | plain       | 1.101 |

(3) (電力換算率)

가 가  
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가 가 가 가  
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 , 가  
가 (無負  
荷) , (受電量) 가 , ,  
가 .

10,000yds

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가 .  
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$$= \frac{10,000\text{yds}}{10,000\text{yds}}$$

1-24

가 , 가 1988  
가 2,382 , 가 882  
가 3 가 , ppm 220  
 , 584 10 (1998 ) 1,130  
1,900 70%

ppm 80%가 ppm 600 , 20%가 ppm 800

가

< 1-24>

(airjet )

가 ppm : 584

$$\frac{\times}{\times}$$

| No. | 직물폭(inch) | 구 조                                      | 원 료        | 조 직         | 환산율   |
|-----|-----------|------------------------------------------|------------|-------------|-------|
| 1   | 47        | $\frac{45 \times 45}{110 \times 76}$     | P/C(65/35) | plain       | 1.000 |
| 2   | 62        | $\frac{50 \times 50}{96 \times 72}$      | P/CM       | plain       | 0.953 |
| 3   | 63        | $\frac{45 \times 45}{110 \times 76}$     | P/CM       | plain       | 1.022 |
| 4   | 63        | $\frac{20 \times 20}{60 \times 60}$      | CD         | plain       | 0.778 |
| 5   | 63        | $\frac{45/2 \times 45/2}{100 \times 56}$ | P/CM       | plain       | 0.746 |
| 6   | 67        | $\frac{45 \times 45}{110 \times 76}$     | P/CM       | plain       | 1.027 |
| 7   | 67        | $\frac{40 \times 40}{120 \times 110}$    | CM         | plain       | 1.517 |
| 8   | 67        | $\frac{40 \times 40}{120 \times 100}$    | CM         | plain       | 1.380 |
| 9   | 63        | $\frac{20 \times 20}{108 \times 56}$     | CD         | twill(3/1)  | 0.782 |
| 10  | 48        | $\frac{40 \times 40}{120 \times 88}$     | CM         | plain       | 1.185 |
| 11  | 60.5      | $\frac{16 \times 16}{90 \times 64}$      | CD         | sateen(4/1) | 0.867 |
| 12  | 61        | $\frac{42/2 \times 42/2}{112 \times 56}$ | C/P(60/40) | plain       | 0.759 |
| 13  | 61        | $\frac{45/2 \times 45/2}{100 \times 56}$ | P/C(65/35) | plain       | 0.757 |
| 14  | 61        | $\frac{34/2 \times 34/2}{100 \times 48}$ | C/P(60/40) | plain       | 0.660 |
| 15  | 61        | $\frac{35/2 \times 35/2}{112 \times 54}$ | P/C(65/35) | twill(2/1)  | 0.750 |
| 16  | 61        | $\frac{35/2 \times 35/2}{100 \times 48}$ | P/C(65/35) | plain       | 0.659 |
| 17  | 61        | $\frac{34/2 \times 34/2}{112 \times 54}$ | P/C(65/35) | twill(2/1)  | 0.751 |
| 18  | 61        | $\frac{45/2 \times 45/2}{112 \times 56}$ | P/C(65/35) | plain       | 0.770 |
| 19  | 62        | $\frac{34 \times 34}{124 \times 66}$     | P/C(65/35) | plain       | 0.895 |