

# Kodak 125PX - 18 à 24 °C

## Kodak 125PX à EI 64/19°

| ILFORD | Perceptol pur | Perceptol 1+1 | Perceptol 1+3 | Ilfotec DDX 1+4 |
|--------|---------------|---------------|---------------|-----------------|
| 18 °C  | 09.15         | 09.45         | 13.45         | 05.45           |
| 20 °C  | 08.00         | 08.30         | 12.00         | 05.00           |
| 21 °C  | 07.45         | 08.00         | 11.30         | 04.45           |
| 22 °C  | 07.15         | 07.30         | 10.45         | 04.30           |
| 24 °C  | 06.30         | 07.00         | 09.45         | 04.00           |

## Kodak 125PX à EI 125/22°

| ADOX  | Adonal 1+25 | Adonal 1+50 | FX-39 1+9 |
|-------|-------------|-------------|-----------|
| 18 °C | 07.00       | 14.45       | 08.10     |
| 20 °C | 06.00       | 13.00       | 06.30     |
| 21 °C | 05.45       | 12.15       | 05.45     |
| 22 °C | 05.30       | 11.30       | 04.50     |
| 24 °C | 05.00       | 10.30       | 03.50     |

| AGFA  | Rodinal 1+25 | Rodinal 1+50 | R09 special 1+15 | Studional 1+15 |
|-------|--------------|--------------|------------------|----------------|
| 18 °C | 07.00        | 14.45        | 05.45            | 05.45          |
| 20 °C | 06.00        | 13.00        | 05.00            | 05.00          |
| 21 °C | 05.45        | 12.15        | 04.45            | 04.45          |
| 22 °C | 05.30        | 11.30        | 04.30            | 04.30          |
| 24 °C | 05.00        | 10.30        | 04.00            | 04.00          |

| FOMA  | R09 New 1+25 | R09 New 1+50 | Foma Excel pur | Foma Excel 1+1 |
|-------|--------------|--------------|----------------|----------------|
| 18 °C | 07.00        | 14.45        | 06.30          | -              |
| 20 °C | 06.00        | 13.00        | 05.30          | 08.15          |
| 21 °C | 05.45        | 12.15        | 05.00          | 07.30          |
| 22 °C | 05.30        | 11.30        | 04.30          | 07.00          |
| 24 °C | 05.00        | 10.30        | 04.00          | 06.00          |

| ILFORD | ID-11 pur | ID-11 1+1 | Ilfotec LC29 1+9 | Ilfotec LC29 1+19 | Ilfotec LC29 1+29 | Ilfotec DDX 1+4 | Ilfotec HC 1+15 | Ilfotec HC 1+31 | Ilfosol-S 1+9 | Ilfosol-S 1+14 | Ilfosol-3 1+9 |
|--------|-----------|-----------|------------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------------|----------------|---------------|
| 18 °C  | 06.30     | 10.00     | 04.00            | 06.15             | 10.15             | 07.00           | 03.30           | 05.15           | 08.00         | 14.15          | 05.45         |
| 20 °C  | 05.30     | 08.30     | 03.30            | 05.30             | 09.00             | 06.00           | 03.00           | 04.30           | 07.00         | 12.30          | 05.00         |
| 21 °C  | 05.00     | 07.45     | 03.30            | 05.15             | 08.30             | 05.45           | -               | 04.15           | 06.45         | 11.45          | 04.45         |
| 22 °C  | 04.30     | 07.15     | 03.15            | 05.00             | 08.00             | 05.30           | -               | 04.00           | 06.15         | 11.00          | 04.30         |
| 24 °C  | 04.00     | 06.00     | -                | 04.30             | 07.15             | 05.00           | -               | 03.45           | 05.45         | 10.00          | 04.00         |

| (suite) | Ilfosol-3 1+14 |
|---------|----------------|
| 18 °C   | 09.45          |
| 20 °C   | 08.30          |
| 21 °C   | 08.00          |
| 22 °C   | 07.30          |
| 24 °C   | 07.00          |

| KODAK | D-76 pur | D-76 1+1 | TMAX-dev 1+4 | Microdol-X | Microdol-X 1+3 | HC-110 (B) 1+31 | XTOL | XTOL 1+1 |
|-------|----------|----------|--------------|------------|----------------|-----------------|------|----------|
|-------|----------|----------|--------------|------------|----------------|-----------------|------|----------|

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 18 °C | 06.30 | 10.00 | 06.45 | 09.15 | -     | 04.00 | 06.30 | -     |
| 20 °C | 05.30 | 08.30 | 05.45 | 08.00 | 13.00 | 03.30 | 05.30 | 08.15 |
| 21 °C | 05.00 | 07.45 | 05.15 | 07.15 | 11.45 | 03.00 | 05.00 | 07.30 |
| 22 °C | 04.30 | 07.15 | 04.45 | 06.45 | 10.45 | 02.45 | 04.30 | 07.00 |
| 24 °C | 04.00 | 06.00 | 04.15 | 05.45 | 09.15 | 02.15 | 04.00 | 06.00 |

|                 |              |
|-----------------|--------------|
| <b>PATERSON</b> | FX-39<br>1+9 |
| 18 °C           | 08.10        |
| 20 °C           | 06.30        |
| 21 °C           | 05.45        |
| 22 °C           | 04.50        |
| 24 °C           | 03.50        |

**Kodak 125PX à EI 200/24°**

| <b>ILFORD</b> | Microphen<br>pur | Microphen<br>1+1 | Microphen<br>1+3 | Ilfotec DDX<br>1+4 |
|---------------|------------------|------------------|------------------|--------------------|
| 18 °C         | 07.00            | 09.45            | 15.15            | 09.15              |
| 20 °C         | 06.00            | 08.30            | 13.30            | 08.00              |
| 21 °C         | 05.45            | 08.00            | 12.45            | 07.45              |
| 22 °C         | 05.30            | 07.30            | 12.00            | 07.15              |
| 24 °C         | 05.00            | 07.00            | 11.00            | 06.30              |

# Kodak 320TXP - 18 à 24 °C

## Kodak 320TXP à EI 320/26°

| FOMA  | Foma Excel pur | Foma Excel 1+1 |
|-------|----------------|----------------|
| 18 °C | 08.45          | 12.30          |
| 20 °C | 07.45          | 11.15          |
| 21 °C | 07.15          | 10.15          |
| 22 °C | 06.30          | 09.30          |
| 24 °C | 05.45          | 08.00          |

| ILFORD | ID-11 pur | ID-11 1+1 |
|--------|-----------|-----------|
| 18 °C  | 10.00     | 14.15     |
| 20 °C  | 09.00     | 12.45     |
| 21 °C  | 08.15     | 11.45     |
| 22 °C  | 07.30     | 10.45     |
| 24 °C  | 06.30     | 09.15     |

| KODAK | D-76 pur | D-76 1+1 | TMAX-dev 1+4 | Microdol-X | HC-110 (B) 1+31 | XTOL  | XTOL 1+1 |
|-------|----------|----------|--------------|------------|-----------------|-------|----------|
| 18 °C | 10.00    | 14.15    | 08.15        | 11.30      | 05.15           | 08.45 | 12.30    |
| 20 °C | 09.00    | 12.45    | 07.15        | 10.15      | 04.45           | 07.45 | 11.15    |
| 21 °C | 08.15    | 11.45    | 06.45        | 09.30      | 04.15           | 07.15 | 10.15    |
| 22 °C | 07.30    | 10.45    | 06.15        | 08.45      | 04.00           | 06.30 | 09.30    |
| 24 °C | 06.30    | 09.15    | 05.15        | 07.30      | 03.30           | 05.45 | 08.00    |

| MOERSCH | Finol 1+1+100 |
|---------|---------------|
| 18 °C   | 24.00         |
| 20 °C   | 20.00         |
| 21 °C   | 18.30         |
| 22 °C   | 17.00         |
| 24 °C   | 13.30         |

| SPURSINN | SAM classic 1+5 | SAM classic 1+7 |
|----------|-----------------|-----------------|
| 18 °C    | 11.15           | 14.30           |
| 20 °C    | 09.00           | 11.45           |
| 21 °C    | 08.00           | 10.30           |
| 22 °C    | 07.15           | 09.30           |
| 24 °C    | 06.15           | 08.15           |

| TETENAL | Paranol S 1+25 | Paranol S 1+50 |
|---------|----------------|----------------|
| 18 °C   | 11.00          | 21.45          |
| 20 °C   | 09.00          | 18.00          |
| 21 °C   | 08.30          | 16.45          |
| 22 °C   | 07.45          | 15.30          |
| 24 °C   | 06.45          | 13.30          |

### Kodak 320TXP à EI 1250/32°

| FOMA  | Foma Excel pur |  |
|-------|----------------|--|
| 18 °C | 15.45          |  |
| 20 °C | 13.45          |  |
| 21 °C | 12.30          |  |
| 22 °C | 11.30          |  |
| 24 °C | 10.00          |  |

  

| KODAK | XTOL  | XTOL 1+1 |
|-------|-------|----------|
| 18 °C | 13.30 | 18.45    |
| 20 °C | 12.00 | 15.45    |
| 21 °C | 11.00 | 14.30    |
| 22 °C | 10.00 | 13.15    |
| 24 °C | 08.45 | 11.30    |

  

| SPURSINN | SAM classic 1+5 |  |
|----------|-----------------|--|
| 18 °C    | 15.00           |  |
| 20 °C    | 12.15           |  |
| 21 °C    | 11.00           |  |
| 22 °C    | 10.00           |  |
| 24 °C    | 08.30           |  |

## Kodak 400TX - 18 à 24 °C

### Kodak 400TX à EI 100/21°

| ROLLEI | RLS 1+4 |  |
|--------|---------|--|
| 18 °C  | -       |  |
| 20 °C  | -       |  |
| 21 °C  | -       |  |
| 22 °C  | -       |  |
| 24 °C  | 11.00   |  |

  

| SPURSINN | SAM classic 1+9 |  |
|----------|-----------------|--|
| 18 °C    | 08.00           |  |
| 20 °C    | 06.30           |  |
| 21 °C    | 06.00           |  |
| 22 °C    | 05.15           |  |
| 24 °C    | -               |  |

### Kodak 400TX à EI 200/24°

| ADOX  | Adonal 1+50 | Adonal 1+100 |
|-------|-------------|--------------|
| 18 °C | 10.15       | 34.00        |
| 20 °C | 09.00       | 30.00        |
| 21 °C | 08.30       | 28.15        |
| 22 °C | 08.00       | 26.30        |
| 24 °C | 07.15       | 24.00        |

| <b>AGFA</b> | Rodinal<br>1+50 | Rodinal<br>1+100 |
|-------------|-----------------|------------------|
| 18 °C       | 10.15           | 34.00            |
| 20 °C       | 09.00           | 30.00            |
| 21 °C       | 08.30           | 28.15            |
| 22 °C       | 08.00           | 26.30            |
| 24 °C       | 07.15           | 24.00            |

| <b>ARS-IMAGO</b> | FD<br>1+39 |
|------------------|------------|
| 18 °C            | -          |
| 20 °C            | 04.30      |
| 21 °C            | -          |
| 22 °C            | -          |
| 24 °C            | -          |

| <b>FOMA</b> | R09 New<br>1+50 | R09 New<br>1+100 | Foma Excel<br>pur | Foma Excel<br>1+1 |
|-------------|-----------------|------------------|-------------------|-------------------|
| 18 °C       | 10.15           | 34.00            | 06.15             | 09.15             |
| 20 °C       | 09.00           | 30.00            | 05.30             | 08.00             |
| 21 °C       | 08.30           | 28.15            | 05.15             | 07.45             |
| 22 °C       | 08.00           | 26.30            | 05.00             | 07.15             |
| 24 °C       | 07.15           | 24.00            | 04.30             | 06.30             |

| <b>ILFORD</b> | Perceptol<br>pur | Perceptol<br>1+1 | Perceptol<br>1+3 | Ilfotec LC29<br>1+19 | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+31 | Ilfosol-3<br>1+9 | Ilfosol-3<br>1+14 |
|---------------|------------------|------------------|------------------|----------------------|--------------------|--------------------|------------------|-------------------|
| 18 °C         | 11.30            | 13.45            | 17.00            | 05.15                | 07.30              | 06.15              | 06.15            | 09.45             |
| 20 °C         | 10.00            | 12.00            | 15.00            | 04.30                | 06.30              | 05.30              | 05.30            | 08.30             |
| 21 °C         | 09.30            | 11.30            | 14.15            | 04.15                | 06.15              | 05.15              | 05.15            | 08.00             |
| 22 °C         | 09.00            | 10.45            | 13.15            | 04.00                | 05.45              | 05.00              | 05.00            | 07.30             |
| 24 °C         | 08.00            | 09.45            | 12.00            | 03.45                | 05.15              | 04.30              | 04.30            | 07.00             |

| <b>KODAK</b> | Microdol-X<br>1+1 | XTOL  | XTOL<br>1+1 | D-19  |
|--------------|-------------------|-------|-------------|-------|
| 18 °C        | 13.45             | 06.15 | 09.15       | 05.15 |
| 20 °C        | 12.00             | 05.30 | 08.00       | 04.30 |
| 21 °C        | 11.30             | 05.15 | 07.45       | 04.15 |
| 22 °C        | 10.45             | 05.00 | 07.15       | 04.00 |
| 24 °C        | 09.45             | 04.30 | 06.30       | 03.45 |

| <b>ROLLEI</b> | RLS<br>1+4 |
|---------------|------------|
| 18 °C         | -          |
| 20 °C         | -          |
| 21 °C         | -          |
| 22 °C         | -          |
| 24 °C         | 13.00      |

| <b>SPURSINN</b> | SAM classic<br>1+7 | SAM classic<br>1+9 |
|-----------------|--------------------|--------------------|
| 18 °C           | 08.00              | 12.30              |
| 20 °C           | 06.30              | 10.00              |
| 21 °C           | 06.00              | 09.00              |
| 22 °C           | 05.15              | 08.00              |
| 24 °C           | -                  | 07.00              |

**Kodak 400TX à EI 250/25°**

| <b>AGFA</b> | R09 special<br>1+15 | Studional<br>1+15 |
|-------------|---------------------|-------------------|
| 18 °C       | 06.15               | 06.15             |
| 20 °C       | 05.30               | 05.30             |
| 21 °C       | 05.15               | 05.15             |
| 22 °C       | 05.00               | 05.00             |
| 24 °C       | 04.30               | 04.30             |

| <b>BERGGER</b> | PMK<br>1+2+100 |
|----------------|----------------|
| 18 °C          | -              |
| 20 °C          | 16.30          |
| 21 °C          | 15.00          |
| 22 °C          | 13.45          |
| 24 °C          | 12.00          |

| <b>MOERSCH</b> | Finol<br>1+1+75 | Tanol Speed<br>1+1+100 |
|----------------|-----------------|------------------------|
| 18 °C          | 16.45           | 20.15                  |
| 20 °C          | 14.00           | 17.00                  |
| 21 °C          | 13.00           | 15.45                  |
| 22 °C          | 11.45           | 14.30                  |
| 24 °C          | 09.30           | 11.30                  |

| <b>SPUR</b> | AcuroI-N<br>1+50 | HRX<br>1+17 |
|-------------|------------------|-------------|
| 18 °C       | 17.00            | 12.30       |
| 20 °C       | 15.00            | 11.00       |
| 21 °C       | 14.15            | 10.30       |
| 22 °C       | 13.15            | 09.45       |
| 24 °C       | 12.00            | 09.00       |

| <b>SPURSINN</b> | SAM classic<br>1+7 |
|-----------------|--------------------|
| 18 °C           | 09.30              |
| 20 °C           | 07.45              |
| 21 °C           | 07.00              |
| 22 °C           | 06.15              |
| 24 °C           | 05.30              |

**Kodak 400TX à EI 320/26°**

| SPUR     | UFP<br>1+24        |
|----------|--------------------|
| 18 °C    | 10.15              |
| 20 °C    | 09.00              |
| 21 °C    | 08.30              |
| 22 °C    | 08.00              |
| 24 °C    | 07.15              |
| SPURSINN | SAM classic<br>1+7 |
| 18 °C    | 11.15              |
| 20 °C    | 09.00              |
| 21 °C    | 08.00              |
| 22 °C    | 07.15              |
| 24 °C    | 06.15              |

**Kodak 400TX à EI 400/27°**

| ADOX      | Adonal<br>1+50   | ADX-II<br>1+24 | Atomal 49<br>pur | Silvermax<br>1+19 | FX-39<br>1+9 |
|-----------|------------------|----------------|------------------|-------------------|--------------|
| 18 °C     | 16.00            | 13.45          | -                | 13.45             | 10.00        |
| 20 °C     | 14.00            | 12.00          | -                | 12.00             | 08.00        |
| 21 °C     | 13.15            | 11.30          | -                | 11.30             | 07.30        |
| 22 °C     | 12.30            | 10.45          | 08.00            | 10.45             | 06.30        |
| 24 °C     | 11.15            | 09.45          | -                | 09.45             | 06.00        |
| AGFA      | Rodinal<br>1+50  | Atomal<br>pur  |                  |                   |              |
| 18 °C     | 16.00            | -              |                  |                   |              |
| 20 °C     | 14.00            | -              |                  |                   |              |
| 21 °C     | 13.15            | -              |                  |                   |              |
| 22 °C     | 12.30            | 08.00          |                  |                   |              |
| 24 °C     | 11.15            | -              |                  |                   |              |
| ARS-IMAGO | FD<br>1+39       |                |                  |                   |              |
| 18 °C     | -                |                |                  |                   |              |
| 20 °C     | 06.00            |                |                  |                   |              |
| 21 °C     | -                |                |                  |                   |              |
| 22 °C     | -                |                |                  |                   |              |
| 24 °C     | -                |                |                  |                   |              |
| BKA       | Ethol UFG<br>1+5 |                |                  |                   |              |
| 18 °C     | -                |                |                  |                   |              |
| 20 °C     | -                |                |                  |                   |              |
| 21 °C     | 03.00            |                |                  |                   |              |
| 22 °C     | -                |                |                  |                   |              |
| 24 °C     | -                |                |                  |                   |              |
| BERGGER   | BerSpeed<br>1+1  |                |                  |                   |              |
| 18 °C     | 13.15            |                |                  |                   |              |
| 20 °C     | 11.00            |                |                  |                   |              |
| 21 °C     | 10.15            |                |                  |                   |              |

|                 |                    |                    |                     |                      |                    |                    |                    |                  |                  |                   |
|-----------------|--------------------|--------------------|---------------------|----------------------|--------------------|--------------------|--------------------|------------------|------------------|-------------------|
| 22 °C           | 09.15              |                    |                     |                      |                    |                    |                    |                  |                  |                   |
| 24 °C           | 08.00              |                    |                     |                      |                    |                    |                    |                  |                  |                   |
| <b>CLAYTON</b>  | F60<br>1+9         | F76 plus<br>1+9    |                     |                      |                    |                    |                    |                  |                  |                   |
| 18 °C           | 07.15              | 07.15              |                     |                      |                    |                    |                    |                  |                  |                   |
| 20 °C           | 06.15              | 06.15              |                     |                      |                    |                    |                    |                  |                  |                   |
| 21 °C           | 06.00              | 06.00              |                     |                      |                    |                    |                    |                  |                  |                   |
| 22 °C           | 05.30              | 05.30              |                     |                      |                    |                    |                    |                  |                  |                   |
| 24 °C           | 05.00              | 05.00              |                     |                      |                    |                    |                    |                  |                  |                   |
| <b>FOMA</b>     | R09 New<br>1+50    | Foma LQN<br>1+10   | Universal<br>1+3    | Foma Excel<br>pur    | Foma Excel<br>1+1  | Fomadon P<br>pur   | Fomadon P<br>1+1   |                  |                  |                   |
| 18 °C           | 16.00              | 17.00              | 08.30               | 08.00                | 10.00              | 12.30              | 16.00              |                  |                  |                   |
| 20 °C           | 14.00              | 15.00              | 07.30               | 07.00                | 09.00              | 11.00              | 14.00              |                  |                  |                   |
| 21 °C           | 13.15              | 14.15              | 07.15               | 06.15                | 08.30              | 10.30              | 13.15              |                  |                  |                   |
| 22 °C           | 12.30              | 13.15              | 06.45               | 05.45                | 08.00              | 09.45              | 12.30              |                  |                  |                   |
| 24 °C           | 11.15              | 12.00              | 06.00               | 04.45                | 07.15              | 09.00              | 11.15              |                  |                  |                   |
| <b>ILFORD</b>   | ID-11<br>pur       | ID-11<br>1+1       | Ilfotec LC29<br>1+9 | Ilfotec LC29<br>1+19 | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+15 | Ilfotec HC<br>1+31 | Ilfosal-S<br>1+9 | Ilfosal-3<br>1+9 | Ilfosal-3<br>1+14 |
| 18 °C           | 08.00              | 10.45              | 04.00               | 07.30                | 09.15              | 04.00              | 07.30              | 11.30            | 08.30            | 13.45             |
| 20 °C           | 06.45              | 09.45              | 03.30               | 06.30                | 08.00              | 03.30              | 06.30              | 10.00            | 07.30            | 12.00             |
| 21 °C           | 06.15              | 09.00              | 03.30               | 06.15                | 07.45              | 03.30              | 06.15              | 09.30            | 07.15            | 11.30             |
| 22 °C           | 05.30              | 08.30              | 03.15               | 05.45                | 07.15              | 03.15              | 05.45              | 09.00            | 06.45            | 10.45             |
| 24 °C           | 04.45              | 07.45              | -                   | 05.15                | 06.30              | -                  | 05.15              | 08.00            | 06.00            | 09.45             |
| <b>KODAK</b>    | D-76<br>pur        | D-76<br>1+1        | TMAX-dev<br>1+4     | Microdol-X           | Microdol-X<br>1+3  | HC-110<br>(B) 1+31 | XTOL               | XTOL<br>1+1      | DK-50<br>1+1     | D-19              |
| 18 °C           | 08.00              | 10.45              | 06.45               | 10.15                | 18.45              | 04.30              | 08.00              | 10.00            | 07.00            | 07.00             |
| 20 °C           | 06.45              | 09.45              | 06.00               | 09.15                | 17.00              | 03.45              | 07.00              | 09.00            | 06.00            | 06.00             |
| 21 °C           | 06.15              | 09.00              | 05.45               | 08.45                | 16.00              | 03.30              | 06.15              | 08.30            | 05.30            | 05.45             |
| 22 °C           | 05.30              | 08.30              | 05.30               | 08.15                | 15.00              | 03.00              | 05.45              | 08.00            | 05.00            | 05.30             |
| 24 °C           | 04.45              | 07.45              | 04.45               | 07.30                | 13.30              | 02.30              | 04.45              | 07.15            | 04.30            | 05.00             |
| <b>PATERSON</b> | Aculux3<br>1+9     | FX-39<br>1+9       |                     |                      |                    |                    |                    |                  |                  |                   |
| 18 °C           | 13.45              | 10.00              |                     |                      |                    |                    |                    |                  |                  |                   |
| 20 °C           | 11.00              | 08.00              |                     |                      |                    |                    |                    |                  |                  |                   |
| 21 °C           | 10.00              | 07.30              |                     |                      |                    |                    |                    |                  |                  |                   |
| 22 °C           | 09.00              | 06.30              |                     |                      |                    |                    |                    |                  |                  |                   |
| 24 °C           | 06.30              | 06.00              |                     |                      |                    |                    |                    |                  |                  |                   |
| <b>ROLLEI</b>   | Supergrain<br>1+9  | Supergrain<br>1+12 | Supergrain<br>1+15  |                      |                    |                    |                    |                  |                  |                   |
| 18 °C           | 07.00              | 08.00              | 08.30               |                      |                    |                    |                    |                  |                  |                   |
| 20 °C           | 06.00              | 07.00              | 07.30               |                      |                    |                    |                    |                  |                  |                   |
| 21 °C           | 05.45              | 06.45              | 07.15               |                      |                    |                    |                    |                  |                  |                   |
| 22 °C           | 05.30              | 06.15              | 06.45               |                      |                    |                    |                    |                  |                  |                   |
| 24 °C           | 05.00              | 05.45              | 06.00               |                      |                    |                    |                    |                  |                  |                   |
| <b>SPURSINN</b> | SAM classic<br>1+5 | SAM classic<br>1+7 | SAM classic<br>1+9  |                      |                    |                    |                    |                  |                  |                   |
| 18 °C           | 09.45              | 12.30              | 17.15               |                      |                    |                    |                    |                  |                  |                   |
| 20 °C           | 08.00              | 10.00              | 14.00               |                      |                    |                    |                    |                  |                  |                   |
| 21 °C           | 07.15              | 09.00              | 12.30               |                      |                    |                    |                    |                  |                  |                   |
| 22 °C           | 06.30              | 08.00              | 11.15               |                      |                    |                    |                    |                  |                  |                   |

|                |                            |                   |                   |
|----------------|----------------------------|-------------------|-------------------|
| 24 °C          | 05.30                      | 07.00             | 09.45             |
| <b>TETENAL</b> | Ultrafin T-plu<br>s<br>1+4 | Paranol S<br>1+25 | Paranol S<br>1+50 |
| 18 °C          | 10.00                      | 11.00             | 21.45             |
| 20 °C          | 08.15                      | 09.00             | 18.00             |
| 21 °C          | 07.45                      | 08.30             | 16.45             |
| 22 °C          | 07.00                      | 07.45             | 15.30             |
| 24 °C          | 06.15                      | 06.45             | 13.30             |

**Kodak 400TX à EI 640/29°**

|                 |                    |
|-----------------|--------------------|
| <b>ILFORD</b>   | Microphen<br>pur   |
| 18 °C           | 09.15              |
| 20 °C           | 08.00              |
| 21 °C           | 07.45              |
| 22 °C           | 07.15              |
| 24 °C           | 06.30              |
| <b>SPURSINN</b> | SAM classic<br>1+7 |
| 18 °C           | 15.45              |
| 20 °C           | 12.45              |
| 21 °C           | 11.30              |
| 22 °C           | 10.15              |
| 24 °C           | 08.45              |

**Kodak 400TX à EI 800/30°**

|                  |              |
|------------------|--------------|
| <b>ARS-IMAGO</b> | FD<br>1+39   |
| 18 °C            | -            |
| 20 °C            | <b>08.00</b> |
| 21 °C            | -            |
| 22 °C            | -            |
| 24 °C            | -            |

|                |                 |
|----------------|-----------------|
| <b>BERGGER</b> | BerSpeed<br>1+1 |
| 18 °C          | <b>18.15</b>    |
| 20 °C          | <b>15.30</b>    |
| 21 °C          | <b>14.30</b>    |
| 22 °C          | <b>13.15</b>    |
| 24 °C          | <b>11.15</b>    |

|             |                   |                   |
|-------------|-------------------|-------------------|
| <b>FOMA</b> | Foma Excel<br>pur | Foma Excel<br>1+1 |
| 18 °C       | <b>10.00</b>      | -                 |
| 20 °C       | <b>08.30</b>      | <b>11.30</b>      |
| 21 °C       | <b>07.45</b>      | <b>10.30</b>      |
| 22 °C       | <b>07.15</b>      | <b>09.30</b>      |
| 24 °C       | <b>06.00</b>      | <b>08.00</b>      |

|               |              |              |                  |                  |                     |                      |                    |                    |                  |                   |
|---------------|--------------|--------------|------------------|------------------|---------------------|----------------------|--------------------|--------------------|------------------|-------------------|
| <b>ILFORD</b> | ID-11<br>pur | ID-11<br>1+1 | Microphen<br>pur | Microphen<br>1+1 | Ilfotec LC29<br>1+9 | Ilfotec LC29<br>1+19 | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+15 | Ilfosal-3<br>1+9 | Ilfosal-3<br>1+14 |
| 18 °C         | <b>10.00</b> | <b>12.45</b> | <b>12.30</b>     | <b>17.00</b>     | <b>05.45</b>        | <b>10.15</b>         | <b>11.30</b>       | <b>05.45</b>       | <b>12.00</b>     | <b>21.00</b>      |
| 20 °C         | <b>08.00</b> | <b>11.15</b> | <b>11.00</b>     | <b>15.00</b>     | <b>05.00</b>        | <b>09.00</b>         | <b>10.00</b>       | <b>05.00</b>       | <b>10.30</b>     | <b>18.30</b>      |
| 21 °C         | <b>07.15</b> | <b>10.45</b> | <b>10.30</b>     | <b>14.15</b>     | <b>04.45</b>        | <b>08.30</b>         | <b>09.30</b>       | <b>04.45</b>       | <b>10.00</b>     | <b>17.30</b>      |
| 22 °C         | <b>06.30</b> | <b>10.00</b> | <b>09.45</b>     | <b>13.15</b>     | <b>04.30</b>        | <b>08.00</b>         | <b>09.00</b>       | <b>04.30</b>       | <b>09.15</b>     | <b>16.30</b>      |
| 24 °C         | <b>04.45</b> | <b>09.00</b> | <b>09.00</b>     | <b>12.00</b>     | <b>04.00</b>        | <b>07.15</b>         | <b>08.00</b>       | <b>04.00</b>       | <b>08.30</b>     | <b>15.00</b>      |

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| <b>KODAK</b> | D-76<br>pur  | D-76<br>1+1  | XTOL         | XTOL<br>1+1  |
| 18 °C        | <b>10.00</b> | <b>12.45</b> | <b>10.00</b> | -            |
| 20 °C        | <b>08.00</b> | <b>11.15</b> | <b>08.30</b> | <b>11.30</b> |
| 21 °C        | <b>07.15</b> | <b>10.45</b> | <b>07.45</b> | <b>10.30</b> |
| 22 °C        | <b>06.30</b> | <b>10.00</b> | <b>07.15</b> | <b>09.30</b> |
| 24 °C        | <b>04.45</b> | <b>09.00</b> | <b>06.00</b> | <b>08.00</b> |

|                 |                    |                    |
|-----------------|--------------------|--------------------|
| <b>SPURSINN</b> | SAM classic<br>1+5 | SAM classic<br>1+7 |
| 18 °C           | <b>13.00</b>       | <b>16.45</b>       |
| 20 °C           | <b>10.30</b>       | <b>13.30</b>       |
| 21 °C           | <b>09.30</b>       | <b>12.00</b>       |
| 22 °C           | <b>08.30</b>       | <b>11.00</b>       |
| 24 °C           | <b>07.15</b>       | <b>09.15</b>       |

**Kodak 400TX à EI 1000/31°**

| <b>BA</b> | Acufine | Ethol TEC<br>1+15 | ACU-1<br>1+5 |
|-----------|---------|-------------------|--------------|
| 18 °C     | -       | -                 | -            |
| 20 °C     | -       | -                 | -            |
| 21 °C     | 05.00   | 12.00             | 10.00        |
| 22 °C     | -       | -                 | -            |
| 24 °C     | -       | -                 | -            |

**Kodak 400TX à EI 1600/33°**

|                  |                    |                    |                  |                     |                    |                    |
|------------------|--------------------|--------------------|------------------|---------------------|--------------------|--------------------|
| <b>ARS-IMAGO</b> | FD<br>1+39         |                    |                  |                     |                    |                    |
| 18 °C            | -                  |                    |                  |                     |                    |                    |
| 20 °C            | 11.00              |                    |                  |                     |                    |                    |
| 21 °C            | -                  |                    |                  |                     |                    |                    |
| 22 °C            | -                  |                    |                  |                     |                    |                    |
| 24 °C            | -                  |                    |                  |                     |                    |                    |
| <b>CLAYTON</b>   | F76 plus<br>1+9    |                    |                  |                     |                    |                    |
| 18 °C            | -                  |                    |                  |                     |                    |                    |
| 20 °C            | -                  |                    |                  |                     |                    |                    |
| 21 °C            | -                  |                    |                  |                     |                    |                    |
| 22 °C            | 12.00              |                    |                  |                     |                    |                    |
| 24 °C            | -                  |                    |                  |                     |                    |                    |
| <b>FOMA</b>      | Foma Excel<br>pur  | Foma Excel<br>1+1  |                  |                     |                    |                    |
| 18 °C            | 11.15              | 14.30              |                  |                     |                    |                    |
| 20 °C            | 09.45              | 13.15              |                  |                     |                    |                    |
| 21 °C            | 08.45              | 12.15              |                  |                     |                    |                    |
| 22 °C            | 08.00              | 11.30              |                  |                     |                    |                    |
| 24 °C            | 06.45              | 10.30              |                  |                     |                    |                    |
| <b>ILFORD</b>    | ID-11<br>pur       | ID-11<br>1+1       | Microphen<br>pur | Ilfotec LC29<br>1+9 | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+15 |
| 18 °C            | 11.15              | 14.45              | 18.15            | 08.00               | 16.00              | 08.00              |
| 20 °C            | 09.30              | 13.15              | 16.00            | 07.00               | 14.00              | 07.00              |
| 21 °C            | 12.30              | 12.30              | 15.15            | 06.45               | 13.15              | 06.45              |
| 22 °C            | 11.45              | 11.45              | 14.15            | 06.15               | 12.30              | 06.15              |
| 24 °C            | 06.30              | 10.45              | 13.00            | 05.45               | 11.15              | 05.45              |
| <b>KODAK</b>     | D-76<br>pur        | D-76<br>1+1        | TMAX-dev<br>1+4  | HC-110<br>(B) 1+31  | XTOL               | XTOL<br>1+1        |
| 18 °C            | 11.15              | 14.45              | 09.30            | 07.00               | 11.15              | 14.30              |
| 20 °C            | 09.30              | 13.15              | 08.45            | 06.00               | 09.45              | 13.15              |
| 21 °C            | 12.30              | 12.30              | 08.30            | 05.30               | 08.45              | 12.15              |
| 22 °C            | 11.45              | 11.45              | 07.45            | 05.00               | 08.00              | 11.30              |
| 24 °C            | 06.30              | 10.45              | 07.00            | 04.15               | 06.45              | 10.30              |
| <b>SPURSINN</b>  | SAM classic<br>1+5 | SAM classic<br>1+7 |                  |                     |                    |                    |
| 18 °C            | 16.00              | 21.45              |                  |                     |                    |                    |
| 20 °C            | 13.00              | 17.30              |                  |                     |                    |                    |
| 21 °C            | 11.30              | 15.45              |                  |                     |                    |                    |
| 22 °C            | 10.30              | 14.15              |                  |                     |                    |                    |
| 24 °C            | 09.00              | 12.00              |                  |                     |                    |                    |

**Kodak 400TX à EI 3200/36°**

| <b>FOMA</b> | Foma Excel pur | Foma Excel 1+1 |  |  |  |
|-------------|----------------|----------------|--|--|--|
| 18 °C       | -              | -              |  |  |  |
| 20 °C       | 11.30          | 15.30          |  |  |  |
| 21 °C       | 10.30          | 14.30          |  |  |  |
| 22 °C       | 09.30          | 13.45          |  |  |  |
| 24 °C       | 08.00          | 12.15          |  |  |  |

  

| <b>ILFORD</b> | ID-11 pur | ID-11 1+1 | Microphen pur |  |  |
|---------------|-----------|-----------|---------------|--|--|
| 18 °C         | 12.30     | 18.15     | 28.15         |  |  |
| 20 °C         | 11.00     | 16.00     | 25.00         |  |  |
| 21 °C         | 10.30     | 15.15     | 23.30         |  |  |
| 22 °C         | 09.45     | 14.15     | 22.00         |  |  |
| 24 °C         | 09.00     | 13.00     | 20.00         |  |  |

  

| <b>KODAK</b> | D-76 pur | D-76 1+1 | TMAX-dev 1+4 | XTOL  | XTOL 1+1 |
|--------------|----------|----------|--------------|-------|----------|
| 18 °C        | 12.45    | 17.30    | -            | -     | -        |
| 20 °C        | 11.00    | 16.00    | -            | 11.30 | 15.30    |
| 21 °C        | 08.45    | 15.00    | -            | 10.30 | 14.30    |
| 22 °C        | 09.00    | 14.15    | -            | 09.30 | 13.45    |
| 24 °C        | 07.30    | 12.45    | 08.15        | 08.00 | 12.15    |

  

| <b>SPURSINN</b> | SAM classic 1+5 | SAM classic 1+7 |  |  |  |
|-----------------|-----------------|-----------------|--|--|--|
| 18 °C           | 21.00           | 26.30           |  |  |  |
| 20 °C           | 17.00           | 21.30           |  |  |  |
| 21 °C           | 15.15           | 19.30           |  |  |  |
| 22 °C           | 13.45           | 17.30           |  |  |  |
| 24 °C           | 11.45           | 15.00           |  |  |  |

# Kodak TMAX-100 - 18 à 24 °C

## Kodak TMAX-100 à EI 50/18°

|                  |                    |
|------------------|--------------------|
| <b>ARS-IMAGO</b> | FD<br>1+39         |
| 18 °C            | -                  |
| 20 °C            | <b>04.30</b>       |
| 21 °C            | -                  |
| 22 °C            | -                  |
| 24 °C            | -                  |
| <b>ROLLEI</b>    | RLS<br>1+4         |
| 18 °C            | -                  |
| 20 °C            | -                  |
| 21 °C            | -                  |
| 22 °C            | -                  |
| 24 °C            | <b>12.00</b>       |
| <b>SPUR</b>      | Acurol-N<br>1+50   |
| 18 °C            | <b>12.00</b>       |
| 20 °C            | <b>10.30</b>       |
| 21 °C            | <b>10.00</b>       |
| 22 °C            | <b>09.15</b>       |
| 24 °C            | <b>08.30</b>       |
| <b>SPURSINN</b>  | SAM classic<br>1+9 |
| 18 °C            | <b>09.30</b>       |
| 20 °C            | <b>07.45</b>       |
| 21 °C            | <b>07.00</b>       |
| 22 °C            | <b>06.15</b>       |
| 24 °C            | <b>05.30</b>       |

### Kodak TMAX-100 à EI 64/19°

| MOERSCH  | Tanol<br>1+1+100   |
|----------|--------------------|
| 18 °C    | 20.45              |
| 20 °C    | 17.00              |
| 21 °C    | 15.30              |
| 22 °C    | 14.00              |
| 24 °C    | 11.30              |
| SPUR     | HRX<br>1+17        |
| 18 °C    | 13.00              |
| 20 °C    | 11.30              |
| 21 °C    | 11.00              |
| 22 °C    | 10.15              |
| 24 °C    | 09.15              |
| SPURSINN | SAM classic<br>1+7 |
| 18 °C    | 09.30              |
| 20 °C    | 07.45              |
| 21 °C    | 07.00              |
| 22 °C    | 06.15              |
| 24 °C    | 05.30              |

### Kodak TMAX-100 à EI 80/20°

| AGFA   | R09 special<br>1+15 | Studional<br>1+15 |
|--------|---------------------|-------------------|
| 18 °C  | 05.45               | 05.45             |
| 20 °C  | 05.00               | 05.00             |
| 21 °C  | 04.45               | 04.45             |
| 22 °C  | 04.30               | 04.30             |
| 24 °C  | 04.00               | 04.00             |
| ILFORD | Ilfosol-3<br>1+9    | Ilfosol-3<br>1+14 |
| 18 °C  | 06.15               | 10.15             |
| 20 °C  | 05.30               | 09.00             |
| 21 °C  | 05.15               | 08.30             |
| 22 °C  | 05.00               | 08.00             |
| 24 °C  | 04.30               | 07.00             |
| SPUR   | UFP<br>1+24         |                   |
| 18 °C  | 10.45               |                   |
| 20 °C  | 09.30               |                   |
| 21 °C  | 09.00               |                   |
| 22 °C  | 08.30               |                   |
| 24 °C  | 07.45               |                   |

### Kodak TMAX-100 à EI 100/21°

| ADOX  | ADX-II<br>1+24 | Silvermax<br>1+24 | FX-39<br>1+9 | FX-39<br>1+14 |
|-------|----------------|-------------------|--------------|---------------|
| 18 °C | 13.45          | 12.30             | 10.00        | 13.45         |

|                |              |              |               |               |
|----------------|--------------|--------------|---------------|---------------|
| 20 °C          | 12.00        | 11.00        | 08.00         | 11.00         |
| 21 °C          | 11.30        | 10.30        | 07.30         | 10.00         |
| 22 °C          | 10.45        | 09.45        | 06.30         | 09.00         |
| 24 °C          | 09.45        | 09.00        | 06.00         | 06.30         |
| <b>AMALOCO</b> | AM-74<br>1+7 | AM-74<br>1+9 | AM-74<br>1+15 | AM-74<br>1+19 |
| 18 °C          | 06.00        | 06.45        | 08.00         | 12.00         |
| 20 °C          | 05.00        | 05.30        | 06.30         | 10.00         |
| 21 °C          | 04.45        | 05.15        | 06.15         | 09.30         |
| 22 °C          | 04.30        | 05.00        | 06.00         | 09.00         |
| 24 °C          | 03.30        | 04.00        | 04.45         | 07.00         |

|                  |            |
|------------------|------------|
| <b>ARS-IMAGO</b> | FD<br>1+39 |
| 18 °C            | -          |
| 20 °C            | 06.00      |
| 21 °C            | -          |
| 22 °C            | -          |
| 24 °C            | -          |

|            |                  |                   |
|------------|------------------|-------------------|
| <b>BKA</b> | Ethol UFG<br>1+5 | Ethol TEC<br>1+15 |
| 18 °C      | -                | -                 |
| 20 °C      | -                | -                 |
| 21 °C      | 06.00            | 14.30             |
| 22 °C      | -                | -                 |
| 24 °C      | -                | -                 |

|                |                 |
|----------------|-----------------|
| <b>BERGGER</b> | BerSpeed<br>1+1 |
| 18 °C          | 13.15           |
| 20 °C          | 11.00           |
| 21 °C          | 10.15           |
| 22 °C          | 09.15           |
| 24 °C          | 08.00           |

|                |                 |                  |
|----------------|-----------------|------------------|
| <b>CLAYTON</b> | F76 plus<br>1+9 | F76 plus<br>1+19 |
| 18 °C          | 13.00           | 22.45            |
| 20 °C          | 12.00           | 20.00            |
| 21 °C          | 11.45           | 19.00            |
| 22 °C          | 11.30           | 17.45            |
| 24 °C          | 10.30           | 16.00            |

|             |                 |                  |                   |                   |                  |                  |
|-------------|-----------------|------------------|-------------------|-------------------|------------------|------------------|
| <b>FOMA</b> | R09 New<br>1+50 | Foma LQN<br>1+10 | Foma Excel<br>pur | Foma Excel<br>1+1 | Fomadon P<br>pur | Fomadon P<br>1+1 |
| 18 °C       | 17.00           | 12.30            | 08.30             | 11.30             | 13.45            | 20.30            |
| 20 °C       | 15.00           | 11.00            | 07.30             | 09.30             | 12.00            | 18.00            |
| 21 °C       | 14.15           | 10.30            | 06.30             | 08.30             | 11.30            | 17.00            |
| 22 °C       | 13.15           | 09.45            | 06.00             | 07.30             | 10.45            | 16.00            |
| 24 °C       | 12.00           | 09.00            | 05.00             | 06.30             | 09.45            | 14.30            |

|               |              |              |              |                  |                  |                  |                  |                  |                  |                     |                      |
|---------------|--------------|--------------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|----------------------|
| <b>ILFORD</b> | ID-11<br>pur | ID-11<br>1+1 | ID-11<br>1+3 | Microphen<br>pur | Microphen<br>1+1 | Microphen<br>1+3 | Perceptol<br>pur | Perceptol<br>1+1 | Perceptol<br>1+3 | Ilfotec LC29<br>1+9 | Ilfotec LC29<br>1+19 |
| 18 °C         | 07.30        | 11.00        | -            | 09.15            | 12.30            | 18.15            | 13.45            | 14.45            | 21.30            | 04.00               | 08.30                |
| 20 °C         | 06.30        | 09.30        | 17.00        | 08.00            | 11.00            | 16.00            | 12.00            | 13.00            | 19.00            | 03.30               | 07.30                |

|         |                      |                    |                    |                    |                  |                   |       |       |       |       |       |
|---------|----------------------|--------------------|--------------------|--------------------|------------------|-------------------|-------|-------|-------|-------|-------|
| 21 °C   | 05.30                | 08.30              | 15.30              | 07.45              | 10.30            | 15.15             | 11.30 | 12.15 | 18.00 | 03.30 | 07.15 |
| 22 °C   | 05.00                | 07.30              | 14.30              | 07.15              | 09.45            | 14.15             | 10.45 | 11.30 | 16.45 | 03.15 | 06.45 |
| 24 °C   | 04.15                | 06.15              | 12.30              | 06.30              | 09.00            | 13.00             | 09.45 | 10.30 | 15.15 | -     | 06.00 |
| (suite) | Ilfotec LC29<br>1+29 | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+15 | Ilfotec HC<br>1+31 | Ilfotec-S<br>1+9 | Ilfotec-S<br>1+14 |       |       |       |       |       |
| 18 °C   | 12.30                | 08.00              | 04.00              | 08.30              | 09.45            | 18.15             |       |       |       |       |       |
| 20 °C   | 11.00                | 07.00              | 03.30              | 07.30              | 08.30            | 16.00             |       |       |       |       |       |
| 21 °C   | 10.30                | 06.45              | 03.30              | 07.15              | 08.00            | 15.15             |       |       |       |       |       |
| 22 °C   | 09.45                | 06.15              | 03.15              | 06.45              | 07.30            | 14.15             |       |       |       |       |       |
| 24 °C   | 09.00                | 05.45              | -                  | 06.00              | 07.00            | 13.00             |       |       |       |       |       |

|              |             |             |             |                 |                 |                 |            |                   |                    |       |             |
|--------------|-------------|-------------|-------------|-----------------|-----------------|-----------------|------------|-------------------|--------------------|-------|-------------|
| <b>KODAK</b> | D-76<br>pur | D-76<br>1+1 | D-76<br>1+3 | TMAX-dev<br>1+4 | TMAX-dev<br>1+7 | TMAX-dev<br>1+9 | Microdol-X | Microdol-X<br>1+3 | HC-110<br>(B) 1+31 | XTOL  | XTOL<br>1+1 |
| 18 °C        | 07.30       | 11.00       | -           | -               | -               | -               | 13.30      | -                 | 06.30              | 08.30 | 11.30       |
| 20 °C        | 06.30       | 09.30       | 17.00       | 07.30           | -               | -               | 11.30      | 17.00             | 06.00              | 07.30 | 09.30       |
| 21 °C        | 05.30       | 08.30       | 15.30       | 07.00           | -               | -               | 10.30      | 15.30             | 05.30              | 06.30 | 08.30       |
| 22 °C        | 05.00       | 07.30       | 14.30       | 06.30           | -               | -               | 09.30      | 14.30             | 05.00              | 06.00 | 07.30       |
| 24 °C        | 04.15       | 06.15       | 12.30       | 06.15           | 09.30           | 13.30           | 08.00      | 12.30             | 04.00              | 05.00 | 06.30       |

|         |       |
|---------|-------|
| (suite) | D-19  |
| 18 °C   | 05.45 |
| 20 °C   | 05.00 |
| 21 °C   | 04.45 |
| 22 °C   | 04.30 |
| 24 °C   | 04.00 |

|                |                  |                        |
|----------------|------------------|------------------------|
| <b>MOERSCH</b> | Finol<br>1+1+100 | Tanol Speed<br>1+1+100 |
| 18 °C          | 21.00            | 18.30                  |
| 20 °C          | 17.30            | 15.30                  |
| 21 °C          | 16.15            | 14.15                  |
| 22 °C          | 14.45            | 13.15                  |
| 24 °C          | 12.00            | 10.30                  |

|                 |                |              |               |
|-----------------|----------------|--------------|---------------|
| <b>PATERSON</b> | Aculux3<br>1+9 | FX-39<br>1+9 | FX-39<br>1+14 |
| 18 °C           | 11.15          | 10.00        | 13.45         |
| 20 °C           | 09.00          | 08.00        | 11.00         |
| 21 °C           | 08.15          | 07.30        | 10.00         |
| 22 °C           | 07.15          | 06.30        | 09.00         |
| 24 °C           | 05.30          | 06.00        | 06.30         |

|               |                   |                    |                    |
|---------------|-------------------|--------------------|--------------------|
| <b>ROLLEI</b> | Supergrain<br>1+9 | Supergrain<br>1+12 | Supergrain<br>1+15 |
| 18 °C         | 07.00             | 08.30              | 09.45              |
| 20 °C         | 06.00             | 07.30              | 08.30              |
| 21 °C         | 05.45             | 07.15              | 08.00              |
| 22 °C         | 05.30             | 06.45              | 07.30              |
| 24 °C         | 05.00             | 06.00              | 07.00              |

|                 |                    |                    |                    |
|-----------------|--------------------|--------------------|--------------------|
| <b>SPURSINN</b> | SAM classic<br>1+5 | SAM classic<br>1+7 | SAM classic<br>1+9 |
| 18 °C           | 07.15              | 09.30              | 11.45              |
| 20 °C           | 06.00              | 07.45              | 09.30              |
| 21 °C           | 05.30              | 07.00              | 08.30              |

|                |                            |                   |                   |
|----------------|----------------------------|-------------------|-------------------|
| 22 °C          | 05.00                      | 06.15             | 07.45             |
| 24 °C          | -                          | 05.30             | 06.30             |
| <b>TETENAL</b> | Ultrafin T-plu<br>s<br>1+4 | Paranol S<br>1+25 | Paranol S<br>1+50 |
| 18 °C          | 13.15                      | 13.15             | 32.30             |
| 20 °C          | 11.00                      | 11.00             | 27.00             |
| 21 °C          | 10.15                      | 10.15             | 25.00             |
| 22 °C          | 09.30                      | 09.30             | 23.00             |
| 24 °C          | 08.15                      | 08.15             | 20.15             |

**Kodak TMAX-100 à EI 160/23°**

|            |                   |               |
|------------|-------------------|---------------|
| <b>BKA</b> | Ethol TEC<br>1+15 | ACU-1<br>1+10 |
| 18 °C      | -                 | -             |
| 20 °C      | -                 | -             |
| 21 °C      | 17.00             | 12.00         |
| 22 °C      | -                 | -             |
| 24 °C      | -                 | -             |

**Kodak TMAX-100 à EI 200/24°**

| AMALOCO | AM-74<br>1+7 | AM-74<br>1+9 | AM-74<br>1+15 | AM-74<br>1+19 |
|---------|--------------|--------------|---------------|---------------|
| 18 °C   | 07.00        | 07.45        | 09.00         | 14.00         |
| 20 °C   | 05.45        | 06.20        | 07.30         | 11.30         |
| 21 °C   | 05.30        | 06.15        | 07.15         | 11.00         |
| 22 °C   | 05.15        | 05.45        | 06.45         | 10.30         |
| 24 °C   | 04.15        | 04.30        | 05.15         | 08.15         |

| ARS-IMAGO | FD<br>1+39 |
|-----------|------------|
| 18 °C     | -          |
| 20 °C     | 09.00      |
| 21 °C     | -          |
| 22 °C     | -          |
| 24 °C     | -          |

| BKA   | Acufine |
|-------|---------|
| 18 °C | -       |
| 20 °C | -       |
| 21 °C | 04.30   |
| 22 °C | -       |
| 24 °C | -       |

| FOMA  | Foma Excel<br>pur | Foma Excel<br>1+1 |
|-------|-------------------|-------------------|
| 18 °C | 09.45             | 13.15             |
| 20 °C | 08.00             | 10.30             |
| 21 °C | 07.15             | 09.30             |
| 22 °C | 06.30             | 08.30             |
| 24 °C | 05.30             | 07.15             |

| ILFORD | ID-11<br>pur | Ifotec DDX<br>1+4 |
|--------|--------------|-------------------|
| 18 °C  | 08.00        | 10.15             |
| 20 °C  | 06.30        | 09.00             |
| 21 °C  | 06.00        | 08.30             |
| 22 °C  | 05.30        | 08.00             |
| 24 °C  | 04.15        | 07.15             |

| KODAK | D-76<br>pur | XTOL  | XTOL<br>1+1 | D-19  |
|-------|-------------|-------|-------------|-------|
| 18 °C | 08.00       | 09.45 | 13.15       | 07.00 |
| 20 °C | 06.30       | 08.00 | 10.30       | 06.00 |
| 21 °C | 06.00       | 07.15 | 09.30       | 05.45 |
| 22 °C | 05.30       | 06.30 | 08.30       | 05.30 |
| 24 °C | 04.15       | 05.30 | 07.15       | 05.00 |

**Kodak TMAX-100 à EI 400/27°**

| FOMA   | Foma Excel pur | Foma Excel 1+1 |                 |       |          |       |
|--------|----------------|----------------|-----------------|-------|----------|-------|
| 18 °C  | 11.30          | 16.15          |                 |       |          |       |
| 20 °C  | 09.30          | 12.15          |                 |       |          |       |
| 21 °C  | 08.30          | 10.45          |                 |       |          |       |
| 22 °C  | 07.30          | 09.30          |                 |       |          |       |
| 24 °C  | 06.30          | 08.15          |                 |       |          |       |
| ILFORD | ID-11 pur      |                |                 |       |          |       |
| 18 °C  | 10.00          |                |                 |       |          |       |
| 20 °C  | 08.15          |                |                 |       |          |       |
| 21 °C  | 07.45          |                |                 |       |          |       |
| 22 °C  | 07.00          |                |                 |       |          |       |
| 24 °C  | 05.30          |                |                 |       |          |       |
| KODAK  | D-76 pur       | TMAX-dev 1+4   | HC-110 (B) 1+31 | XTOL  | XTOL 1+1 | D-19  |
| 18 °C  | 10.00          | 13.30          | 13.45           | 11.30 | 16.15    | 07.45 |
| 20 °C  | 08.15          | 12.15          | 11.30           | 09.30 | 12.15    | 06.45 |
| 21 °C  | 07.45          | 11.45          | 10.45           | 08.30 | 10.45    | 06.30 |
| 22 °C  | 07.00          | 11.15          | 09.45           | 07.30 | 09.30    | 06.00 |
| 24 °C  | 05.30          | 10.00          | 07.45           | 06.30 | 08.15    | 05.30 |

**Kodak TMAX-100 à EI 800/30°**

| FOMA  | Foma Excel pur | Foma Excel 1+1 |          |  |
|-------|----------------|----------------|----------|--|
| 18 °C | 12.45          | 17.15          |          |  |
| 20 °C | 10.30          | 13.15          |          |  |
| 21 °C | 09.30          | 11.45          |          |  |
| 22 °C | 08.30          | 10.15          |          |  |
| 24 °C | 07.15          | 09.00          |          |  |
| KODAK | TMAX-dev 1+4   | XTOL           | XTOL 1+1 |  |
| 18 °C | -              | 12.45          | 17.15    |  |
| 20 °C | -              | 10.30          | 13.15    |  |
| 21 °C | -              | 09.30          | 11.45    |  |
| 22 °C | -              | 08.30          | 10.15    |  |
| 24 °C | 11.45          | 07.15          | 09.00    |  |

# Kodak TMAX-400 - 18 à 24 °C

*NOTE : Les temps du D-76 proviennent de la notice de Kodak ; les temps de l'ID-11 de la notice Ilford ne sont pas à jour ; les temps du D-76 sont donnés en remplacement*

## Kodak TMAX-400 à EI 200/24°

| ARS-IMAGO | FD 1+39 |
|-----------|---------|
| 18 °C     | -       |
| 20 °C     | 04.30   |
| 21 °C     | -       |
| 22 °C     | -       |
| 24 °C     | -       |

| ILFORD | Ilfotec DDX 1+4 | Ilfosol-3 1+9 | Ilfosol-3 1+14 |
|--------|-----------------|---------------|----------------|
| 18 °C  | 08.00           | 06.30         | 08.45          |
| 20 °C  | 07.00           | 05.30         | 07.30          |
| 21 °C  | 06.45           | 05.15         | 07.00          |
| 22 °C  | 06.15           | 04.45         | 06.45          |
| 24 °C  | 05.45           | 04.00         | 05.30          |

| KODAK | D-19  |
|-------|-------|
| 18 °C | 05.45 |
| 20 °C | 05.00 |
| 21 °C | 04.45 |
| 22 °C | 04.30 |
| 24 °C | 04.00 |

| ROLLEI | RLS 1+4 |
|--------|---------|
| 18 °C  | -       |
| 20 °C  | -       |
| 21 °C  | -       |
| 22 °C  | -       |
| 24 °C  | 12.00   |

| SPUR  | Acurol-N 1+50 |
|-------|---------------|
| 18 °C | 11.30         |
| 20 °C | 10.00         |
| 21 °C | 09.30         |
| 22 °C | 09.00         |
| 24 °C | 08.00         |

| SPURSINN | SAM classic 1+7 | SAM classic 1+9 |
|----------|-----------------|-----------------|
| 18 °C    | 08.00           | 09.45           |
| 20 °C    | 06.30           | 08.00           |
| 21 °C    | 06.00           | 07.15           |
| 22 °C    | 05.15           | 06.30           |
| 24 °C    | -               | 05.30           |

**Kodak TMAX-400 à EI 320/26°**

|                 |                    |              |
|-----------------|--------------------|--------------|
| <b>ADOX</b>     | Silvermax<br>1+24  |              |
| 18 °C           | <b>13.00</b>       |              |
| 20 °C           | <b>11.30</b>       |              |
| 21 °C           | <b>11.00</b>       |              |
| 22 °C           | <b>10.15</b>       |              |
| 24 °C           | <b>09.15</b>       |              |
| <b>MOERSCH</b>  | Finol<br>1+1+100   |              |
| 18 °C           | <b>20.00</b>       |              |
| 20 °C           | <b>16.30</b>       |              |
| 21 °C           | <b>15.15</b>       |              |
| 22 °C           | <b>13.45</b>       |              |
| 24 °C           | <b>11.00</b>       |              |
| <b>SPUR</b>     | HRX<br>1+20        | UFP<br>1+30  |
| 18 °C           | <b>14.15</b>       | <b>12.30</b> |
| 20 °C           | <b>12.30</b>       | <b>11.00</b> |
| 21 °C           | <b>11.45</b>       | <b>10.30</b> |
| 22 °C           | <b>11.00</b>       | <b>09.45</b> |
| 24 °C           | <b>10.00</b>       | <b>09.00</b> |
| <b>SPURSINN</b> | SAM classic<br>1+7 |              |
| 18 °C           | <b>08.45</b>       |              |
| 20 °C           | <b>07.00</b>       |              |
| 21 °C           | <b>06.30</b>       |              |
| 22 °C           | <b>05.45</b>       |              |
| 24 °C           | <b>05.00</b>       |              |

**Kodak TMAX-400 à EI 400/27°**

|                  |                     |                   |               |
|------------------|---------------------|-------------------|---------------|
| <b>ADOX</b>      | ADX-II<br>1+24      | FX-39<br>1+9      | FX-39<br>1+14 |
| 18 °C            | <b>13.00</b>        | <b>12.30</b>      | <b>15.00</b>  |
| 20 °C            | <b>11.30</b>        | <b>10.00</b>      | <b>12.00</b>  |
| 21 °C            | <b>11.00</b>        | <b>09.00</b>      | <b>11.00</b>  |
| 22 °C            | <b>10.15</b>        | <b>08.00</b>      | <b>09.30</b>  |
| 24 °C            | <b>09.15</b>        | <b>06.00</b>      | <b>07.15</b>  |
| <b>AGFA</b>      | R09 special<br>1+15 | Studional<br>1+15 |               |
| 18 °C            | <b>05.45</b>        | <b>05.45</b>      |               |
| 20 °C            | <b>05.00</b>        | <b>05.00</b>      |               |
| 21 °C            | <b>04.45</b>        | <b>04.45</b>      |               |
| 22 °C            | <b>04.30</b>        | <b>04.30</b>      |               |
| 24 °C            | <b>04.00</b>        | <b>04.00</b>      |               |
| <b>ARS-IMAGO</b> | FD<br>1+39          |                   |               |
| 18 °C            | -                   |                   |               |
| 20 °C            | <b>06.30</b>        |                   |               |
| 21 °C            | -                   |                   |               |

|                |                 |
|----------------|-----------------|
| 22 °C          | -               |
| 24 °C          | -               |
| <b>BERGGER</b> | BerSpeed<br>1+1 |
| 18 °C          | 13.00           |
| 20 °C          | 10.45           |
| 21 °C          | 10.00           |
| 22 °C          | 09.00           |
| 24 °C          | 07.30           |

|                |            |             |                 |                  |
|----------------|------------|-------------|-----------------|------------------|
| <b>CLAYTON</b> | F60<br>1+9 | F60<br>1+19 | F76 plus<br>1+9 | F76 plus<br>1+19 |
| 18 °C          | 07.45      | 14.15       | 08.45           | -                |
| 20 °C          | 06.45      | 12.30       | 08.00           | -                |
| 21 °C          | 06.30      | 11.45       | 07.45           | -                |
| 22 °C          | 06.00      | 11.00       | 07.45           | -                |
| 24 °C          | 05.30      | 10.00       | 07.00           | 12.30            |

|             |                 |                  |                   |                   |                  |                  |
|-------------|-----------------|------------------|-------------------|-------------------|------------------|------------------|
| <b>FOMA</b> | R09 New<br>1+50 | Foma LQN<br>1+10 | Foma Excel<br>pur | Foma Excel<br>1+1 | Fomadon P<br>pur | Fomadon P<br>1+1 |
| 18 °C       | 12.30           | 13.45            | 07.15             | 10.45             | 12.30            | 21.30            |
| 20 °C       | 11.00           | 12.00            | 06.30             | 09.15             | 11.00            | 19.00            |
| 21 °C       | 10.30           | 11.30            | 06.15             | 08.30             | 10.30            | 18.00            |
| 22 °C       | 09.45           | 10.45            | 05.45             | 07.45             | 09.45            | 16.45            |
| 24 °C       | 09.00           | 09.45            | 05.15             | 07.00             | 09.00            | 15.15            |

|               |              |              |                  |                  |                  |                  |                  |                  |                     |                      |                      |
|---------------|--------------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|----------------------|----------------------|
| <b>ILFORD</b> | ID-11<br>pur | ID-11<br>1+1 | Microphen<br>pur | Microphen<br>1+1 | Microphen<br>1+3 | Perceptol<br>pur | Perceptol<br>1+1 | Perceptol<br>1+3 | Ilfotec LC29<br>1+9 | Ilfotec LC29<br>1+19 | Ilfotec LC29<br>1+29 |
| 18 °C         | 08.15        | 11.15        | 08.00            | 11.30            | 17.00            | 12.30            | 13.45            | 19.15            | 04.00               | 07.30                | 10.15                |
| 20 °C         | 07.30        | 10.15        | 07.00            | 10.00            | 15.00            | 11.00            | 12.00            | 17.00            | 03.30               | 06.30                | 09.00                |
| 21 °C         | 06.45        | 09.30        | 06.45            | 09.30            | 14.15            | 10.30            | 11.30            | 16.00            | 03.30               | 06.15                | 08.30                |
| 22 °C         | 06.15        | 09.00        | 06.15            | 09.00            | 13.15            | 09.45            | 10.45            | 15.00            | 03.15               | 05.45                | 08.00                |
| 24 °C         | 05.30        | 08.00        | 05.45            | 08.00            | 12.00            | 09.00            | 09.45            | 13.45            | -                   | 05.15                | 07.15                |

|         |                    |                    |                    |                  |                   |                  |                   |
|---------|--------------------|--------------------|--------------------|------------------|-------------------|------------------|-------------------|
| (suite) | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+15 | Ilfotec HC<br>1+31 | Ilfosol-S<br>1+9 | Ilfosol-S<br>1+14 | Ilfosol-3<br>1+9 | Ilfosol-3<br>1+14 |
| 18 °C   | 09.15              | 04.00              | 07.30              | 08.30            | 16.00             | 06.45            | 11.30             |
| 20 °C   | 08.00              | 03.30              | 06.30              | 07.30            | 14.00             | 06.00            | 10.00             |
| 21 °C   | 07.45              | 03.30              | 06.15              | 07.15            | 13.15             | 05.45            | 09.30             |
| 22 °C   | 07.15              | 03.15              | 05.45              | 06.45            | 12.30             | 05.45            | 09.00             |
| 24 °C   | 06.30              | -                  | 05.15              | 06.00            | 11.15             | 05.00            | 07.30             |

|              |             |             |                 |                 |                 |            |                   |                    |       |             |       |
|--------------|-------------|-------------|-----------------|-----------------|-----------------|------------|-------------------|--------------------|-------|-------------|-------|
| <b>KODAK</b> | D-76<br>pur | D-76<br>1+1 | TMAX-dev<br>1+4 | TMAX-dev<br>1+7 | TMAX-dev<br>1+9 | Microdol-X | Microdol-X<br>1+3 | HC-110<br>(B) 1+31 | XTOL  | XTOL<br>1+1 | D-19  |
| 18 °C        | 08.15       | 11.15       | -               | -               | -               | 11.45      | -                 | 06.15              | 07.15 | 10.45       | 07.00 |
| 20 °C        | 07.30       | 10.15       | 06.45           | -               | -               | 10.15      | 21.15             | 05.30              | 06.30 | 09.15       | 06.00 |
| 21 °C        | 06.45       | 09.30       | 06.15           | -               | -               | 09.30      | 19.00             | 05.15              | 06.15 | 08.30       | 05.45 |
| 22 °C        | 06.15       | 09.00       | 06.00           | -               | -               | 08.30      | 17.15             | 04.45              | 05.45 | 07.45       | 05.30 |
| 24 °C        | 05.30       | 08.00       | 05.30           | 08.15           | 13.45           | 07.30      | 14.45             | 04.30              | 05.15 | 07.00       | 05.00 |

|                 |                |              |               |
|-----------------|----------------|--------------|---------------|
| <b>PATERSON</b> | Aculux3<br>1+9 | FX-39<br>1+9 | FX-39<br>1+14 |
| 18 °C           | 16.15          | 12.30        | 15.00         |
| 20 °C           | 13.00          | 10.00        | 12.00         |
| 21 °C           | 11.45          | 09.00        | 11.00         |
| 22 °C           | 10.30          | 08.00        | 09.30         |

|                 |                     |                 |                 |
|-----------------|---------------------|-----------------|-----------------|
| 24 °C           | 08.00               | 06.00           | 07.15           |
| <b>ROLLEI</b>   | Supergrain 1+9      | Supergrain 1+12 | Supergrain 1+15 |
| 18 °C           | 07.30               | 09.15           | 09.45           |
| 20 °C           | 06.30               | 08.00           | 08.30           |
| 21 °C           | 06.15               | 07.45           | 08.00           |
| 22 °C           | 05.45               | 07.15           | 07.30           |
| 24 °C           | 05.15               | 06.30           | 07.00           |
| <b>SPURSINN</b> | SAM classic 1+5     | SAM classic 1+7 | SAM classic 1+9 |
| 18 °C           | 07.15               | 09.30           | 14.15           |
| 20 °C           | 06.00               | 07.45           | 11.30           |
| 21 °C           | 05.30               | 07.00           | 10.30           |
| 22 °C           | 05.00               | 06.15           | 09.15           |
| 24 °C           | -                   | 05.30           | 08.00           |
| <b>TETENAL</b>  | Ultrafin T-plus 1+4 | Paranol S 1+25  | Paranol S 1+50  |
| 18 °C           | 10.00               | 08.30           | 18.00           |
| 20 °C           | 08.15               | 07.00           | 15.00           |
| 21 °C           | 07.45               | 06.30           | 14.00           |
| 22 °C           | 07.00               | 06.00           | 12.45           |
| 24 °C           | 06.15               | 05.15           | 11.15           |

### Kodak TMAX-400 à EI 500/28°

|                |                     |
|----------------|---------------------|
| <b>MOERSCH</b> | Tanol Speed 1+1+100 |
| 18 °C          | 20.00               |
| 20 °C          | 16.30               |
| 21 °C          | 15.15               |
| 22 °C          | 13.45               |
| 24 °C          | 11.00               |

**Kodak TMAX-400 à EI 800/30°**

|             |              |
|-------------|--------------|
| <b>ADOX</b> | FX-39<br>1+9 |
| 18 °C       | 15.00        |
| 20 °C       | 12.00        |
| 21 °C       | 11.00        |
| 22 °C       | 09.30        |
| 24 °C       | 07.15        |

|                  |            |
|------------------|------------|
| <b>ARS-IMAGO</b> | FD<br>1+39 |
| 18 °C            | -          |
| 20 °C            | 09.00      |
| 21 °C            | -          |
| 22 °C            | -          |
| 24 °C            | -          |

|               |                     |                      |                    |                    |                    |                  |                   |
|---------------|---------------------|----------------------|--------------------|--------------------|--------------------|------------------|-------------------|
| <b>ILFORD</b> | Ilfotec LC29<br>1+9 | Ilfotec LC29<br>1+19 | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+15 | Ilfotec HC<br>1+31 | Ilfosal-3<br>1+9 | Ilfosal-3<br>1+14 |
| 18 °C         | 05.45               | 09.15                | 11.30              | 05.45              | 09.15              | 09.45            | 16.30             |
| 20 °C         | 05.00               | 08.00                | 10.00              | 05.00              | 08.00              | 08.30            | 14.00             |
| 21 °C         | 04.45               | 07.45                | 09.30              | 04.45              | 07.45              | 08.00            | 13.15             |
| 22 °C         | 04.30               | 07.15                | 09.00              | 04.30              | 07.15              | 07.30            | 12.15             |
| 24 °C         | 04.00               | 06.30                | 08.00              | 04.00              | 06.30              | 06.30            | 10.00             |

|              |                 |       |
|--------------|-----------------|-------|
| <b>KODAK</b> | TMAX-dev<br>1+4 | D-19  |
| 18 °C        | -               | 07.45 |
| 20 °C        | -               | 06.45 |
| 21 °C        | -               | 06.30 |
| 22 °C        | -               | 06.00 |
| 24 °C        | 06.30           | 05.30 |

|                 |              |
|-----------------|--------------|
| <b>PATERSON</b> | FX-39<br>1+9 |
| 18 °C           | 15.00        |
| 20 °C           | 12.00        |
| 21 °C           | 11.00        |
| 22 °C           | 09.30        |
| 24 °C           | 07.15        |

|                 |                    |                    |
|-----------------|--------------------|--------------------|
| <b>SPURSINN</b> | SAM classic<br>1+5 | SAM classic<br>1+7 |
| 18 °C           | 09.45              | 13.00              |
| 20 °C           | 08.00              | 10.30              |
| 21 °C           | 07.15              | 09.30              |
| 22 °C           | 06.30              | 08.30              |
| 24 °C           | 05.30              | 07.15              |

**Kodak TMAX-400 à EI 1600/33°**

|                  |                    |                    |                      |                    |                    |
|------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| <b>ARS-IMAGO</b> | FD<br>1+39         |                    |                      |                    |                    |
| 18 °C            | -                  |                    |                      |                    |                    |
| 20 °C            | 12.30              |                    |                      |                    |                    |
| 21 °C            | -                  |                    |                      |                    |                    |
| 22 °C            | -                  |                    |                      |                    |                    |
| 24 °C            | -                  |                    |                      |                    |                    |
| <b>FOMA</b>      | Foma Excel<br>pur  | Foma Excel<br>1+1  |                      |                    |                    |
| 18 °C            | 09.45              | 14.15              |                      |                    |                    |
| 20 °C            | 08.30              | 12.15              |                      |                    |                    |
| 21 °C            | 08.00              | 11.30              |                      |                    |                    |
| 22 °C            | 07.30              | 10.45              |                      |                    |                    |
| 24 °C            | 06.30              | 09.00              |                      |                    |                    |
| <b>ILFORD</b>    | ID-11<br>pur       | Microphen<br>1+1   | Ilfotec LC29<br>1+19 | Ilfotec DDX<br>1+4 | Ilfotec HC<br>1+31 |
| 18 °C            | 10.45              | 14.45              | 09.45                | 14.45              | 09.45              |
| 20 °C            | 09.15              | 13.00              | 08.30                | 13.00              | 08.30              |
| 21 °C            | 08.45              | 12.15              | 08.00                | 12.15              | 08.00              |
| 22 °C            | 08.15              | 11.30              | 07.30                | 11.30              | 07.30              |
| 24 °C            | 07.00              | 10.30              | 07.00                | 10.30              | 07.00              |
| <b>KODAK</b>     | D-76<br>pur        | TMAX-dev<br>1+4    | HC-110<br>(B) 1+31   | XTOL               | XTOL<br>1+1        |
| 18 °C            | 10.45              | 09.15              | 08.30                | 09.45              | 14.15              |
| 20 °C            | 09.15              | 08.30              | 07.30                | 08.30              | 12.15              |
| 21 °C            | 08.45              | 08.15              | 07.15                | 08.00              | 11.30              |
| 22 °C            | 08.15              | 08.00              | 06.45                | 07.30              | 10.45              |
| 24 °C            | 07.00              | 07.15              | 06.00                | 06.30              | 09.00              |
| <b>SPURSINN</b>  | SAM classic<br>1+5 | SAM classic<br>1+7 |                      |                    |                    |
| 18 °C            | 14.45              | 20.15              |                      |                    |                    |
| 20 °C            | 12.00              | 16.15              |                      |                    |                    |
| 21 °C            | 10.45              | 14.30              |                      |                    |                    |
| 22 °C            | 09.45              | 13.15              |                      |                    |                    |
| 24 °C            | 08.15              | 11.15              |                      |                    |                    |

### Kodak TMAX-400 à EI 3200/36°

*NOTE : Dans la notice, Kodak recommande le surdéveloppement pour EI 3200/36 à une (cf. p. 6).*

| FOMA  | Foma Excel pur | Foma Excel 1+1 |
|-------|----------------|----------------|
| 18 °C | -              | -              |
| 20 °C | -              | -              |
| 21 °C | -              | -              |
| 22 °C | -              | -              |
| 24 °C | 07.15          | 10.00          |

| ILFORD | Ilfotec HC 1+31 |
|--------|-----------------|
| 18 °C  | 12.30           |
| 20 °C  | 11.00           |
| 21 °C  | 10.30           |
| 22 °C  | 09.45           |
| 24 °C  | 09.00           |

| KODAK | TMAX-dev 1+4 | XTOL  | XTOL 1+1 |
|-------|--------------|-------|----------|
| 18 °C | -            | -     | -        |
| 20 °C | -            | -     | -        |
| 21 °C | -            | -     | -        |
| 22 °C | -            | -     | -        |
| 24 °C | 08.15        | 07.15 | 10.00    |

| SPURSINN | SAM classic 1+5 | SAM classic 1+7 |
|----------|-----------------|-----------------|
| 18 °C    | 21.00           | 25.15           |
| 20 °C    | 17.00           | 20.30           |
| 21 °C    | 15.15           | 18.30           |
| 22 °C    | 13.45           | 16.45           |
| 24 °C    | 11.45           | 14.15           |

### Kodak TMAX-400 à EI 6400/39°

*NOTE : Kodak ne fournit pas de temps de développement pour ce niveau de surdéveloppement. Une est conseillée.*

| ILFORD | Ilfotec HC 1+31 |
|--------|-----------------|
| 18 °C  | 14.45           |
| 20 °C  | 13.00           |
| 21 °C  | 12.15           |
| 22 °C  | 11.30           |
| 24 °C  | 10.30           |

| SPURSINN | SAM classic 1+5 | SAM classic 1+7 |
|----------|-----------------|-----------------|
| 18 °C    | 28.15           | 30.45           |
| 20 °C    | 23.00           | 25.00           |
| 21 °C    | 20.45           | 22.30           |
| 22 °C    | 18.45           | 20.15           |
| 24 °C    | 16.00           | 17.15           |

# Kodak TMAX-3200 - 18 à 24 °C

## Kodak TMAX-3200 à EI 400/27°

| FOMA  | Foma Excel pur | Foma Excel 1+1 |
|-------|----------------|----------------|
| 18 °C | 11.45          | -              |
| 20 °C | 09.30          | 12.30          |
| 21 °C | 08.30          | 11.30          |
| 22 °C | 07.45          | 10.30          |
| 24 °C | 06.45          | 10.00          |

| ILFORD | ID-11 pur |
|--------|-----------|
| 18 °C  | 13.15     |
| 20 °C  | 10.30     |
| 21 °C  | 09.30     |
| 22 °C  | 08.30     |
| 24 °C  | 07.30     |

| KODAK | D-76 pur | TMAX-dev 1+4 | HC-110 (B) 1+31 | XTOL  | XTOL 1+1 |
|-------|----------|--------------|-----------------|-------|----------|
| 18 °C | 13.15    | 09.45        | 10.15           | 11.45 | -        |
| 20 °C | 10.30    | 08.30        | 07.30           | 09.30 | 12.30    |
| 21 °C | 09.30    | 08.00        | 06.30           | 08.30 | 11.30    |
| 22 °C | 08.30    | 07.30        | 05.30           | 07.45 | 10.30    |
| 24 °C | 07.30    | 06.30        | 05.00           | 06.45 | 10.00    |

**Kodak TMAX-3200 à EI 800/30°**

| <b>FOMA</b> | Foma Excel pur | Foma Excel 1+1 |  |  |  |  |  |  |  |
|-------------|----------------|----------------|--|--|--|--|--|--|--|
| 18 °C       | 12.45          | -              |  |  |  |  |  |  |  |
| 20 °C       | 10.30          | 14.00          |  |  |  |  |  |  |  |
| 21 °C       | 09.30          | 13.00          |  |  |  |  |  |  |  |
| 22 °C       | 08.45          | 12.15          |  |  |  |  |  |  |  |
| 24 °C       | 07.30          | 11.30          |  |  |  |  |  |  |  |

  

| <b>ILFORD</b> | ID-11 pur | Ifotec DDX 1+4 | Ifotec HC 1+31 | Ifosol-3 1+9 | Ifosol-3 1+14 |  |  |
|---------------|-----------|----------------|----------------|--------------|---------------|--|--|
| 18 °C         | 14.00     | 08.30          | 09.15          | 07.30        | 12.45         |  |  |
| 20 °C         | 11.30     | 07.30          | 08.00          | 06.30        | 11.00         |  |  |
| 21 °C         | 10.30     | 07.15          | 07.45          | 06.15        | 10.15         |  |  |
| 22 °C         | 09.30     | 06.45          | 07.15          | 05.45        | 09.30         |  |  |
| 24 °C         | 08.30     | 06.00          | 06.30          | 05.00        | 08.00         |  |  |

  

| <b>KODAK</b> | D-76 pur | TMAX-dev 1+4 | TMAX-dev 1+7 | TMAX-dev 1+9 | HC-110 (B) 1+31 | XTOL  | XTOL 1+1 |
|--------------|----------|--------------|--------------|--------------|-----------------|-------|----------|
| 18 °C        | 14.00    | 10.45        | -            | -            | 11.45           | 12.45 | -        |
| 20 °C        | 11.30    | 09.30        | -            | -            | 08.30           | 10.30 | 14.00    |
| 21 °C        | 10.30    | 09.00        | -            | -            | 07.15           | 09.30 | 13.00    |
| 22 °C        | 09.30    | 08.30        | -            | -            | 06.15           | 08.45 | 12.15    |
| 24 °C        | 08.30    | 07.30        | 13.00        | 19.30        | 05.45           | 07.30 | 11.30    |

  

| <b>SPUR</b> | Acurol-N 1+50 |
|-------------|---------------|
| 18 °C       | 17.00         |
| 20 °C       | 15.00         |
| 21 °C       | 14.15         |
| 22 °C       | 13.15         |
| 24 °C       | 12.00         |

**Kodak TMAX-3200 à EI 1600/33°**

| FOMA  | Foma Excel pur | Foma Excel 1+1 |
|-------|----------------|----------------|
| 18 °C | -              | -              |
| 20 °C | 11.30          | 16.00          |
| 21 °C | 10.30          | 14.00          |
| 22 °C | 09.30          | 12.00          |
| 24 °C | 08.15          | 12.30          |

| ILFORD | ID-11 pur | Microphen pur | Microphen 1+1 | Ifotec LC29 1+19 | Ifotec DDX 1+4 | Ifotec HC 1+31 | Ifosol-3 1+9 | Ifosol-3 1+14 |
|--------|-----------|---------------|---------------|------------------|----------------|----------------|--------------|---------------|
| 18 °C  | 12.30     | 10.15         | 15.15         | 09.15            | 10.15          | 09.45          | 09.15        | 15.30         |
| 20 °C  | 11.00     | 09.00         | 13.30         | 08.00            | 09.00          | 08.30          | 08.00        | 13.00         |
| 21 °C  | 10.30     | 08.30         | 12.45         | 07.45            | 08.30          | 08.00          | 07.45        | 12.00         |
| 22 °C  | 09.45     | 08.00         | 12.00         | 07.15            | 08.00          | 07.30          | 07.15        | 11.15         |
| 24 °C  | 09.00     | 07.15         | 11.00         | 06.30            | 07.15          | 07.00          | 06.00        | 09.00         |

| KODAK | D-76 pur | TMAX-dev 1+4 | HC-110 (B) 1+31 | XTOL  | XTOL 1+1 |
|-------|----------|--------------|-----------------|-------|----------|
| 18 °C | -        | -            | -               | -     | -        |
| 20 °C | 12.30    | 10.30        | 09.15           | 11.30 | 16.00    |
| 21 °C | 11.30    | 10.00        | 08.00           | 10.30 | 14.00    |
| 22 °C | 10.30    | 09.00        | 06.45           | 09.30 | 12.00    |
| 24 °C | 09.00    | 08.00        | 06.15           | 08.15 | 12.30    |

| ROLLEI | RLS 1+4 |
|--------|---------|
| 18 °C  | -       |
| 20 °C  | -       |
| 21 °C  | -       |
| 22 °C  | -       |
| 24 °C  | 15.00   |

### Kodak TMAX-3200 à EI 3200/36°

ISO : l'indice d'exposition donné par Kodak pour le film TMAX-3200 correspond une plage d'exposition pour laquelle le film a été optimisé. Sa sensibilité nominale est de ISO 800.

| FOMA  | R09 New 1+50 | Foma Excel pur | Foma Excel 1+1 | Fomadon P pur | Fomadon P 1+1 |
|-------|--------------|----------------|----------------|---------------|---------------|
| 18 °C | 18.15        | -              | -              | 20.30         | 26.00         |
| 20 °C | 16.00        | 13.30          | 18.30          | 18.00         | 23.00         |
| 21 °C | 15.15        | 12.15          | 16.30          | 17.00         | 21.45         |
| 22 °C | 14.15        | 11.15          | 14.30          | 16.00         | 20.15         |
| 24 °C | 13.00        | 09.30          | 14.30          | 14.30         | 18.30         |

| ILFORD | ID-11 pur | Microphen pur | Microphen 1+1 | Ifotec LC29 1+19 | Ifotec DDX 1+4 | Ifotec HC 1+31 | Ifosol-S 1+9 | Ifosol-3 1+9 | Ifosol-3 1+14 |
|--------|-----------|---------------|---------------|------------------|----------------|----------------|--------------|--------------|---------------|
| 18 °C  | 16.00     | 13.45         | 20.30         | 12.30            | 12.30          | 12.30          | 20.00        | 12.00        | 17.00         |
| 20 °C  | 14.00     | 12.00         | 18.00         | 11.00            | 11.00          | 11.00          | 17.30        | 10.00        | 15.00         |
| 21 °C  | 13.15     | 11.30         | 17.00         | 10.30            | 10.30          | 10.30          | 16.30        | 09.30        | 14.15         |
| 22 °C  | 12.30     | 10.45         | 16.00         | 09.45            | 09.45          | 09.45          | 15.30        | 08.30        | 13.15         |
| 24 °C  | 11.15     | 09.45         | 14.30         | 09.00            | 09.00          | 09.00          | 14.00        | 07.00        | 11.30         |

| KODAK | D-76 pur | TMAX-dev 1+4 | HC-110 (B) 1+31 | XTOL  | XTOL 1+1 |
|-------|----------|--------------|-----------------|-------|----------|
| 18 °C | -        | -            | -               | -     | -        |
| 20 °C | 14.00    | 12.00        | 10.30           | 13.30 | 18.30    |
| 21 °C | 13.00    | 11.30        | 09.00           | 12.15 | 16.30    |
| 22 °C | 11.30    | 10.30        | 07.45           | 11.15 | 14.30    |
| 24 °C | 10.30    | 09.30        | 07.00           | 09.30 | 14.30    |

| ROLLEI | Supergrain 1+9 | Supergrain 1+12 | Supergrain 1+15 |
|--------|----------------|-----------------|-----------------|
| 18 °C  | 09.15          | 11.30           | 16.30           |
| 20 °C  | 08.00          | 10.00           | 14.30           |
| 21 °C  | 07.45          | 09.30           | 13.45           |
| 22 °C  | 07.15          | 09.00           | 12.45           |
| 24 °C  | 06.30          | 08.00           | 11.45           |

| TETENAL | Ultrafin T-plu s 1+4 | Paranol S 1+25 | Paranol S 1+50 |
|---------|----------------------|----------------|----------------|
| 18 °C   | 10.30                | 09.45          | 18.00          |
| 20 °C   | 08.45                | 08.00          | 15.00          |
| 21 °C   | 08.15                | 07.30          | 14.00          |
| 22 °C   | 07.30                | 07.00          | 12.45          |
| 24 °C   | 06.45                | 06.00          | 11.15          |

**Kodak TMAX-3200 à EI 6400/39°**

| FOMA  | Foma Excel pur | Foma Excel 1+1 |
|-------|----------------|----------------|
| 18 °C | -              | -              |
| 20 °C | 15.15          | 20.30          |
| 21 °C | 14.00          | 18.30          |
| 22 °C | 12.45          | 16.30          |
| 24 °C | 11.00          | 16.00          |

| ILFORD | ID-11 pur | Microphen pur | Microphen 1+1 | Ilfotec LC29 1+19 | Ilfotec DDX 1+4 | Ilfotec HC 1+31 | Ilfosol-3 1+9 | Ilfosol-3 1+14 |
|--------|-----------|---------------|---------------|-------------------|-----------------|-----------------|---------------|----------------|
| 18 °C  | 17.30     | 16.00         | 23.45         | 14.45             | 17.00           | 14.45           | 14.45         | 20.30          |
| 20 °C  | 15.30     | 14.00         | 21.00         | 13.00             | 15.00           | 13.00           | 13.00         | 18.30          |
| 21 °C  | 14.45     | 13.15         | 19.45         | 12.15             | 14.15           | 12.15           | 12.15         | 17.45          |
| 22 °C  | 13.45     | 12.30         | 18.30         | 11.30             | 13.15           | 11.30           | 11.30         | 17.00          |
| 24 °C  | 12.30     | 11.15         | 17.00         | 10.30             | 12.00           | 10.30           | 10.00         | 15.00          |

| KODAK | D-76 pur | TMAX-dev 1+4 | HC-110 (B) 1+31 | XTOL  | XTOL 1+1 |
|-------|----------|--------------|-----------------|-------|----------|
| 18 °C | -        | -            | -               | -     | -        |
| 20 °C | 15.30    | 13.30        | 12.00           | 15.15 | 20.30    |
| 21 °C | 14.00    | 13.00        | 10.15           | 14.00 | 18.30    |
| 22 °C | 13.00    | 12.00        | 08.45           | 12.45 | 16.30    |
| 24 °C | 11.30    | 11.00        | 08.00           | 11.00 | 16.00    |

**Kodak TMAX-3200 à EI 12500/42°**

| FOMA  | Foma Excel pur | Foma Excel 1+1 |
|-------|----------------|----------------|
| 18 °C | -              | -              |
| 20 °C | 17.15          | 22.30          |
| 21 °C | 15.45          | 20.30          |
| 22 °C | 14.15          | 18.30          |
| 24 °C | 12.15          | 18.00          |

| KODAK | TMAX-dev 1+4 | XTOL  | XTOL 1+1 |
|-------|--------------|-------|----------|
| 18 °C | -            | -     | -        |
| 20 °C | 15.30        | 17.15 | 22.30    |
| 21 °C | 14.30        | 15.45 | 20.30    |
| 22 °C | 13.30        | 14.15 | 18.30    |
| 24 °C | 12.00        | 12.15 | 18.00    |

# Kodak Double-X - 18 à 24 °C

## Kodak Double-X à EI 200/24°

| KODAK | HC-110<br>(A) 1+15 | DK-50<br>1+1 | D-96  |
|-------|--------------------|--------------|-------|
| 18 °C | 05.45              | 07.00        | 07.30 |
| 20 °C | 05.00              | 06.00        | 06.30 |
| 21 °C | 04.45              | 05.45        | 06.15 |
| 22 °C | 04.30              | 05.30        | 05.45 |
| 24 °C | 04.00              | 05.00        | 05.15 |

| SPURSINN | SAM classic<br>1+7 |
|----------|--------------------|
| 18 °C    | 08.45              |
| 20 °C    | 07.00              |
| 21 °C    | 06.30              |
| 22 °C    | 05.45              |
| 24 °C    | 05.00              |

**Kodak Double-X à EI 250/25°**

|                 |                    |                 |                      |       |             |       |
|-----------------|--------------------|-----------------|----------------------|-------|-------------|-------|
| <b>ADOX</b>     | Adonal<br>1+25     | Adonal<br>1+50  |                      |       |             |       |
| 18 °C           | 06.30              | 12.00           |                      |       |             |       |
| 20 °C           | 05.45              | 10.30           |                      |       |             |       |
| 21 °C           | 05.30              | 10.00           |                      |       |             |       |
| 22 °C           | 05.15              | 09.15           |                      |       |             |       |
| 24 °C           | 04.45              | 08.30           |                      |       |             |       |
| <b>AGFA</b>     | Rodinal<br>1+25    | Rodinal<br>1+50 |                      |       |             |       |
| 18 °C           | 06.30              | 12.00           |                      |       |             |       |
| 20 °C           | 05.45              | 10.30           |                      |       |             |       |
| 21 °C           | 05.30              | 10.00           |                      |       |             |       |
| 22 °C           | 05.15              | 09.15           |                      |       |             |       |
| 24 °C           | 04.45              | 08.30           |                      |       |             |       |
| <b>FOMA</b>     | R09 New<br>1+25    | R09 New<br>1+50 |                      |       |             |       |
| 18 °C           | 06.30              | 12.00           |                      |       |             |       |
| 20 °C           | 05.45              | 10.30           |                      |       |             |       |
| 21 °C           | 05.30              | 10.00           |                      |       |             |       |
| 22 °C           | 05.15              | 09.15           |                      |       |             |       |
| 24 °C           | 04.45              | 08.30           |                      |       |             |       |
| <b>ILFORD</b>   | ID-11<br>pur       | ID-11<br>1+1    | Ilfotec LC29<br>1+29 |       |             |       |
| 18 °C           | 08.00              | 11.30           | 09.15                |       |             |       |
| 20 °C           | 07.00              | 10.00           | 08.00                |       |             |       |
| 21 °C           | 06.45              | 09.30           | 07.45                |       |             |       |
| 22 °C           | 06.15              | 09.00           | 07.15                |       |             |       |
| 24 °C           | 05.45              | 08.00           | 06.30                |       |             |       |
| <b>KODAK</b>    | D-76<br>pur        | D-76<br>1+1     | HC-110<br>(B) 1+31   | XTOL  | XTOL<br>1+1 | D-96  |
| 18 °C           | 08.00              | 11.30           | 07.00                | 08.00 | 11.30       | -     |
| 20 °C           | 07.00              | 10.00           | 06.00                | 07.00 | 10.00       | -     |
| 21 °C           | 06.45              | 09.30           | 05.45                | 06.45 | 09.30       | 07.00 |
| 22 °C           | 06.15              | 09.00           | 05.30                | 06.15 | 09.00       | -     |
| 24 °C           | 05.45              | 08.00           | 05.00                | 05.45 | 08.00       | -     |
| <b>SPURSINN</b> | SAM classic<br>1+7 |                 |                      |       |             |       |
| 18 °C           | 09.30              |                 |                      |       |             |       |
| 20 °C           | 07.45              |                 |                      |       |             |       |
| 21 °C           | 07.00              |                 |                      |       |             |       |
| 22 °C           | 06.15              |                 |                      |       |             |       |
| 24 °C           | 05.30              |                 |                      |       |             |       |

### Kodak Double-X à EI 400/27°

| ILFORD | ID-11 pur | Microphen pur |  |
|--------|-----------|---------------|--|
| 18 °C  | 10.15     | 09.45         |  |
| 20 °C  | 09.00     | 08.30         |  |
| 21 °C  | 08.30     | 08.00         |  |
| 22 °C  | 08.00     | 07.30         |  |
| 24 °C  | 07.15     | 07.00         |  |

  

| KODAK | D-76 pur | TMAX-dev 1+4 | HC-110 (B) 1+31 |
|-------|----------|--------------|-----------------|
| 18 °C | 10.15    | 07.00        | 07.30           |
| 20 °C | 09.00    | 06.00        | 06.30           |
| 21 °C | 08.30    | 05.45        | 06.15           |
| 22 °C | 08.00    | 05.30        | 05.45           |
| 24 °C | 07.15    | 05.00        | 05.15           |

  

| SPURSINN | SAM classic 1+7 |
|----------|-----------------|
| 18 °C    | 11.30           |
| 20 °C    | 09.15           |
| 21 °C    | 08.15           |
| 22 °C    | 07.30           |
| 24 °C    | 07.00           |

### Kodak Double-X à EI 800/30°

| ILFORD | Microphen pur |
|--------|---------------|
| 18 °C  | 11.30         |
| 20 °C  | 10.00         |
| 21 °C  | 09.30         |
| 22 °C  | 09.00         |
| 24 °C  | 08.00         |

  

| SPURSINN | SAM classic 1+7 |
|----------|-----------------|
| 18 °C    | 15.45           |
| 20 °C    | 12.45           |
| 21 °C    | 11.30           |
| 22 °C    | 10.15           |
| 24 °C    | 08.45           |

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 Les marques utilisées dans cette page sont des marques déposées appartenant à leurs fabricants respectifs  
 Tables mises à jour le 26 décembre 2024

LÉGENDE :

**noir** : temps 20° C donnés par les fabricants

**bleu** : temps "pirate-photo.fr"

**vert** : temps autres températures que 20° C modifiés par coefficient

**or** : temps autres températures que 20° C donnés par les fabricants