

Rollei

ATP DC DOCUMENT TYPE DEVELOPER

Data Sheet Concerning Rollei ATP DC Developer

(Made for Rollei by SPUR, Aachen/Germany)

Rollei ATP DC developer is a specialist developer for pictorial development of Rollei ATP 1.1 film. This film is a monodisperse maximum resolution film with a spectral sensitivity far into the red spectral region, which is marked by highest resolution and finest graininess. Therefore it is seen by experts as the legitimate successor of Kodak Technical Pan film.

Such materials cannot be developed for pictorial use by conventional developers. To open up this highest resolution material for pictorial photography we offer a developing technique called **Rollei ATP DC developer** (convinced by SPUR Schain + Partner, Aachen/Germany) which makes possible pictorial use without any restrictions. When using Rollei ATP 1.1 film in combination with Rollei ATP DC developer we are now getting results that experts deem better concerning **resolution, sharpness, contrast detail and tonal range** than the results from using Kodak Technical Pan film.

Shooting: The following is to be observed:

1.) Due to the make-up of the film base, flare can penetrate along the perforation of the film end sticking out, thus spoiling at least the first shoots. In order to avoid this, the film should be kept in an opaque film can and may not be left lying around open, or exposed to light. Equally, loading the camera should not happen in too bright light.

2.) The very low thickness of emulsion substantially aggravates the problem of plan positioning (film flattening) compared to regular black-and-white films. Therefore you should make sure that there is sufficient depth of focus so as to make up for the emulsion drifting off from the optimum focal plane, by stopping down at least once or twice. Yet you should further be careful to stop down only **as much as required** (depending on the desired photographic effect) for optimum use of the high resolving power of the **Rollei ATP DC film**. This is why here fast lenses are best.

3.) You must use a camera that allows for manual adjustment of film speed.

Film Speed:

ISO 40/17° (with normal subject contrast)

In cases of high or very high subject contrast you should overexposure half an aperture.

Rollei GmbH
Salzdahlumer Str 196
38126 Braunschweig
www.rolleifilm.de
info@rolleifilm.de

Art.No.:

ATP02DC (20ml / 0.68 US fl.oz.)
ATP02DC (140ml / 4.76 US fl.oz.)

Preparation:

For the development of one film you will need 20 ml of concentrate for 250 ml of working solution. For developing one film we offer a 20 ml bottle of developer, for the development of 7 films we offer a 140 ml bottle.

Dilution to obtain working solution: 1 + 11.5

Developing Parameters (Inversion Development):

Important to note: You must not pre-soak under any circumstances. Pre-soaking will entail an undesired increase of gradation especially of the lights and highlights, thereby preventing good tonal values.

Temperature:

20° C

Developing time:

6 – 6.5 min

Inversion tact:

permanently for the first 30 seconds, then once every 30 seconds thereafter.

It is possible that due to individual differences in the manual use of developing tanks there will be slight differences in results (e.g., concerning gradation and film speed). You can correct this by slightly adjusting the developing time.

After developing you should not rinse. You may instead use an acidic stop bath. You may as well use a fixing bath straight after development.

Well-keeping:

The developer concentrate will keep ca. 2.5 – 3 years if unopened. Prepared working solution will last for a relatively long time (about 6 – 8 weeks), if kept in a full closed bottle. After opening, the 140 ml bottle should be used up relatively quickly. We recommend decanting into smaller bottles or using protective gas. Once used, working solution must be discarded

Rotary Development:

At steady movement lights and highlights will be especially developed, so that rotary development will result in a loss of film speed. This is why we do not recommend rotary development.

Fixing:

Due to low silver, the **Rollei ATP 1.1** only needs 30 – 60 seconds fixing time with a regular concentration of fixer. If fixing time cannot be reduced, the fixing bath should be appropriately diluted instead.

Rinsing:

Rinsing can also be reduced to 2 – 5 minutes. (5 minutes + for archiving purposes).

Analogous-Digital Interface

If, in addition to analogous processing (photochemical enlargement in a conventional lab), you wish to use the digital option, exploring the possibilities of modern computer technology, you should prefer to use a high resolving power film like **Rollei ATP 1.1**. Owing to the much lower thickness of emulsion and the monodisperse distribution of grain, high resolving power films can be scanned far more easily than conventional black-and-white films, whose grain will scatter as a consequence of the considerably thicker emulsion and the different grain distribution. The latter can therefore be scanned only with an outcome of diminished quality.

High resolution films as **Rollei ATP 1.1** on the other side lend themselves to scanning, for as with colour films, there will be no loss in quality. As they naturally dispose of a much higher resolving power than normal black-and-white or colour films, you can thus, yet depending on the resolution of your scanner, create picture files of an overwhelmingly high quality, which after processing will enable you to produce prints of a quality hitherto unknown in relation to the shooting format.

So it makes complete sense to use high resolution photography whenever low speed allows it and you can do without the original colour information.

Other Features:

The developer Rollei ATP DC is marked by the following features:

- High film speed (No other developer can achieve this film speed)
- Considerable improvement of sharpness and resolving power
- Very good contrast detail, especially at a low contrast
- High exposure latitude
- Greatly improved differentiation of highlights/ shadows without diminished middletones
- Improved density range without increased gradation, therefore prints with rich blackenings and pure whites even at soft gradation
- Broad tonal range
- Completely clear development without any developer streaks or schliers. (Even in difficult shooting conditions in the studio, backgrounds and tonal values will remain completely free from developer streaks or schliers. There will be no other disturbing factors or any blurs either.)
- Fine grain
- Particularly easy processing (even when using conventional stop baths or fixers or conventional developing tanks)
- Particularly good well-keeping of both the concentrate and working solution
- Low toxicity (no use of toxins or hydroquinone)