

# Rollei Vintage 331

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## BLACK - AND - WHITE VARIABLE- CONTRAST ENLARGING PHOTOGRAPHIC PAPER WORKING IN A WARM TONE

**Rollei Vintage** is a variable-contrast photographic paper working in a warm tone, specially designed for portrait photography and retro style works. Its contrast can be varied in a large extent from extra soft up to ultra hard by using colour filters at exposure. The paper is manufactured using a special silver chlorobromide emulsion that gives the silver image a brown-green to warm-brown tone that can further be influenced by the type of developer used. The paper base involved is coloured in compliance with the tone of the developed silver. This accentuates rich scale of warm halftones ranging from light cream up to saturated brown -to-green black ones.

Regarding its low speed, the paper is designed primarily for contact work, it can be, however, used as an enlargement paper as well.

**Rollei Vintage** usually manufactured on a resin-coated paper base (RC) in a glossy and matt surface (natural double-weight paper base)

### Packaging

**Rollei Vintage** is available in all common sheet sizes and wide rolls.

### Safelighting

When working with **Rollei Vintage**, the same safelighting can be used as with other common black-and-white photographic papers, i. e. yellow-green, orange and red safelighting with filters (e.g. Ilford 902, Osram Duka 50, Durst Sanat, Agfa G7, Agfa YJ7 etc.). The safelight should be used with a minimum distance of 120 cm.

### Exposure

**Rollei Vintage** can be exposed in all types of enlargers and printers equipped with tungsten or tungsten halogen lamps. Particularly suitable are devices with a special colour mixing heads for multi-contrast papers. Other enlargers can also be used, but separate correction filters should be inserted during exposure.

During enlarging, a fact has to be taken into account that the speed of this paper is considerably lower than that of other **Rollei Vintage** photographic papers so that exposure times have to be adequately longer. Besides, the Schwarzschild effect, being shown particularly at long exposures (above 15 minutes) along with a low intensity of light, which is characteristic for this type of paper, should be taken into account.

### Contrast control

The contrast can be continuously varied from extra soft (contrast grade 0) to ultra hard (contrast grade 5). **Rollei Vintage** being sensitized in blue and green spectral areas, its contrast is controlled using yellow and magenta filters during exposure. If only the blue sensitized part of the emulsion is exposed (under magenta filters), the contrast will increase; if the green sensitized part of the emulsion is exposed (under yellow filters), the contrast will reduce. If no colour filtration is used, the contrast grade of the paper equals 2 (special).

The following methods and devices are recommended for the contrast control:

- standard sets of filters for variable-contrast papers (e.g. Agfa Variables Filters, Ilford Multigrade Filters, etc.)
- magenta and yellow filters in colour mixing heads
- special enlarging heads for variable-contrast papers
- colour printing filters (yellow and magenta)
- colour printers with a programme for variable-contrast papers black-and-white printers with an inserted magenta filter for hard and ultra hard contrast grades

*Filtrations with colour printing filters or colour mixing heads:*

<b>Contrast grade</b>	<b>Filter setting</b>
0 extra soft	80 Y
½	55 Y
1 soft	30 Y
1 ½	15 Y
2 special	10 M
2 ½	25 M
3 normal	40 M
3 ½	65 M
4 hard	100 M
4 ½	150M
5 ultra hard	200M

## Processing

**Rollei Vintage** can be processed both manually in trays and automatically in roller developing machines. The processing procedure does not differ substantially from that for other **Rollei Vintage** photopapers. Any common developers are suitable but **Rollei Vintage Classic**, **Rollei Vintage Creative**, **Rollei Print Warmtone** developers are particularly recommended for their brown-green and warm-brown image tone respectively; the last developer having specially been formulated for this paper. In general it is necessary to take into consideration that any developers giving more expressed images usually reduce contrast and the yield of speed. To obtain warmer tones of developed silver, shorter development times are recommended (up to an optimum of 3 minutes, depending on the type of developer used). Stopping the development before fixing is very important with this paper - any neglecting the procedure recommended can cause non-homogeneities of gray areas on prints.

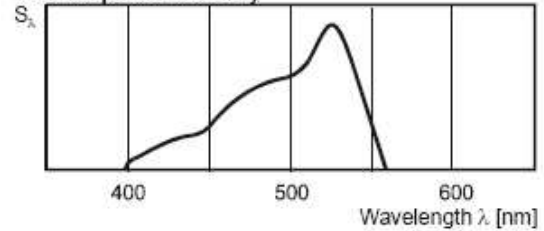
To accentuate the resulting image tone, special developers of foreign manufacturers designed for warm image tones are recommended, e.g. Agfa Neutol WA, Agfa Neutol NE and the like.

## Processing

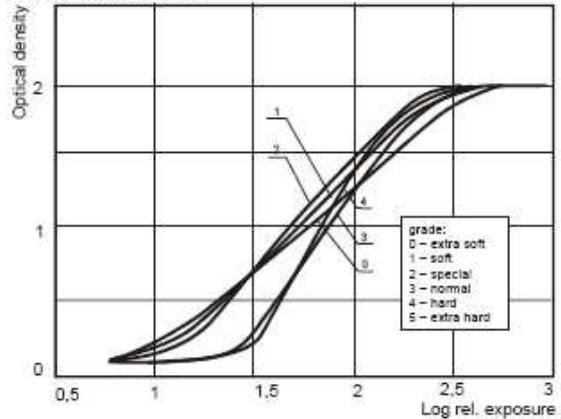
Recommended Developers	Dilution	Time	Capacity m <sup>2</sup> /litre
Rollei Vintage Classic RCD	1+9	min. 2	0,6
Rollei Vintage Creative RSL	1+4	individ.	individ.
Rollei Print Warmtone RPW	1+7	2 ~ 3	0,6
Rollei Print Retro RPN	1+9	min. 2	3,6
Rollei Print Neutral RPR	1+7	2 ~ 3	1,8
Rollei High Contrast RHC	1+4	3 ~ 4	1,4
Agfa Neutol NE	1+9	2	1,1
Agfa Neutol WA	1+9	2	1,1

Contrast grade		ISO speed
0	extra soft	ISO P 35
1	soft	ISO P 35
2	special	ISO P 35
3	normal	ISO P 35
4	hard	ISO P 25
5	ultra hard	ISO P 25
without		ISO P 90

Relative spectral sensitivity



Sensitometric curves



## Toning

**Rollei Vintage** can be toned using the Rollei Sepia two-bath toner by which a brown image tone can be obtained. In this case the temperature of the toning bath is not as relevant as with Rollei Vintage-type photopapers. The prints should be mildly overexposed for toning. A blue tone can be obtained using the Rollei Bluetoner Set. The resulting image tone depends on dilution, temperature and toning time.

## Storage

Rollei Vintage should be stored in an intact original packaging in a dry, cold place (temperatures of up to 5–21 °C and relative humidities ranging 40 – 60 %), out of reach of harmful vapours, gases and ionizing radiation.

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