



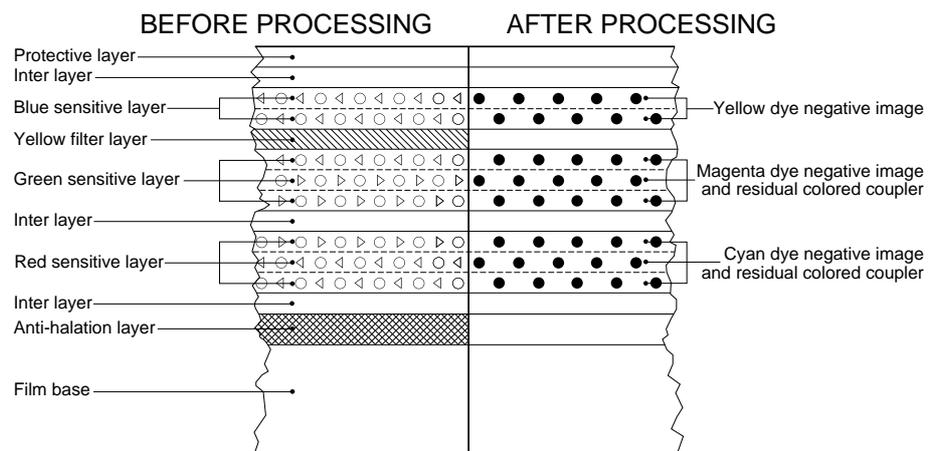
# TECHNICAL DATA SHEET

## Konica Color Centuria 100 Film

### FEATURES

The Konica Color Centuria 100 is an ISO 100/21° color print film balanced for daylight. Centuria 100 is the best selection for outdoor snapshots. The Konica Color Centuria series utilizes Konica's latest emulsion technologies, such as Centuria Crystal, Centuria Coupler and Centuria DIR Coupler. By combining these technologies, Centuria 100 achieves a wide latitude, especially for underexposed shots, and very stable color reproduction from underexposure through overexposure. It also has outstanding raw stock keeping stability, both before and after exposure of the film.

### LAYER STRUCTURE



### FILM BASE

Triacetate base

### FILM SIZES AVAILABLE

135 size: 120 size:

### FILM SPEED

### EXPOSURE CONDITIONS

Konica Color Centuria 100 is designed for use with daylight and electronic flash. While color-balanced for daylight, this film is designed to retain optimum spectral sensitivity and yield satisfactory results when exposed under tungsten or fluorescent light, as well. For best results with these light sources, however, the use of appropriate filters is recommended.

Light Source	ISO Speed	Light Balancing Filter
Daylight or Electronic Flash	100/21°	None
Photolamp (3400K)	32/16°*	Wratten No. 80B
Tungsten (3200K)	25/15°*	Wratten No. 80A

\*Includes the exposure factor to obtain best color results without special printing.

**RECIPROCITY CHARACTERISTICS**

A wide range of shutter speeds (i.e. 1/10000—1sec.) can be used without loss of film speed and tone reproduction. To compensate for reciprocity failure, use the following data as a guide:

**RECIPROCITY FAILURE COMPENSATION GUIDE**

Exposure time (in seconds)	1/10000—1	10
Exposure Compensation	None	+1 stop
Color Compensating Filters	None	None

**DAYLIGHT EXPOSURE**

**EXPOSURE GUIDE TABLE:** Outdoors under daylight.

Conditions	Bright sunlight (Seascape, Snow)	Bright sunlight	Hazy sunlight	Cloudy bright	Cloudy dull, Open shade
Lens opening	f/16	f/11	f/8	f/5.6	f/4
Shutter speed	1/250 sec.	1/250 sec.	1/250 sec.	1/250 sec.	1/250 sec.

This table is applicable for exposures from 2 hours after sunrise to 2 hours before sunset.

The use of an exposure meter is highly recommended in cloudy weather or in open shade since light intensity differentials are in continual flux.

Apertures increased by one or two stops are usually suitable for back-lighted, close-up subjects.

**ELECTRONIC FLASH EXPOSURE**

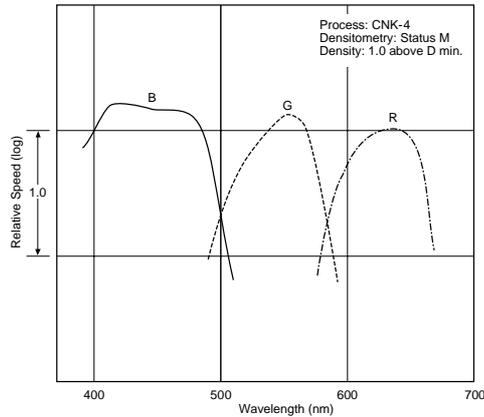
No filter required.

To determine the lens opening, divide the guide number by the flash-to-subject distance. If negatives are over exposed, use a higher guide number; if they're under exposed, use a lower number.

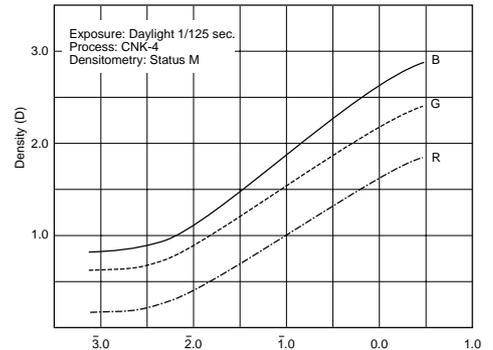
**STANDARD PROCESSING** Konica Color Negative Film Process CNK-4 Series or Process C-41

**SPECTRAL SENSITIVITY • CHARACTERISTIC CURVES**

**SPECTRAL SENSITIVITY**



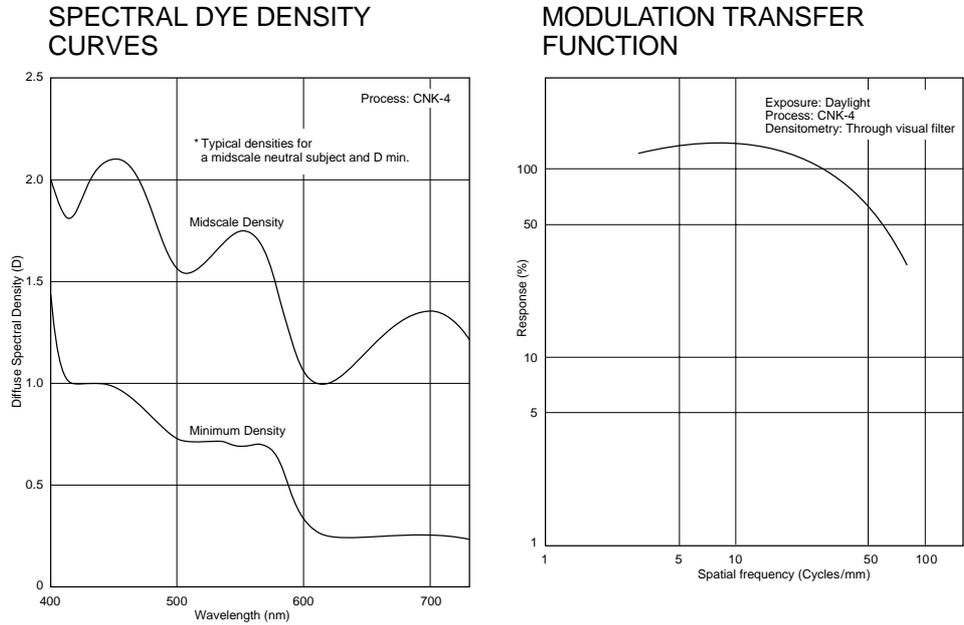
**CHARACTERISTIC CURVES**



**GRANULARITY**

DIFFUSE R.M.S. GRANULARITY: 4  
 Magnification: 12X  
 Aperture diameter: 48 $\mu$ m $\phi$   
 Diffuse transmission density: D min. +1.0

**SPECTRAL DYE DENSITY CURVES • SHARPNESS**



**RESOLVING POWER**

Test-Object Contrast 1.6:1— 63 lines/mm  
 Test-Object Contrast 1000:1—125 lines/mm

**PRECAUTIONS**

Konica Color Centuria 100 film features enhanced raw stock and latent image stability, and resistance to harmful gases. However, the following precautions must be observed in handling color negative films:

1. HANDLING OF FILM: Avoid direct sunlight or other strong light when loading or unloading camera.
2. PROCESSING AND PRINTING: Process and print promptly after exposure to minimize effects of latent image change.
3. STORAGE OF FILM: Keep unused film in a cool, dry place such as a refrigerator. (Storage at below 10°C or 50°F is recommended.)  
 Avoid the following conditions:
  - i) High temperature and high humidity.
  - ii) Exposure to harmful gases such as formaldehyde.
  - iii) Leaving film in camera for extended periods.
4. EXPIRATION DATE OF FILM: For best results, process before expiration date stamped on package.
5. STORAGE OF PROCESSED FILM: Keep processed film in a cool, dry and dark place to minimize fading of dyes.

NOTICE: The characteristic curves and data in this publication represent test results obtained under the specified conditions of exposure and processing. The manufacturer reserves the right to modify product characteristics at any time.