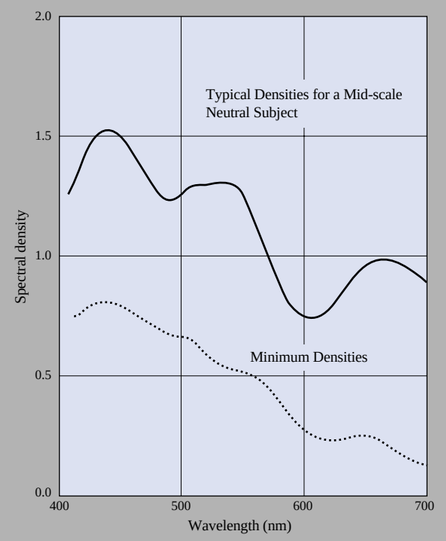
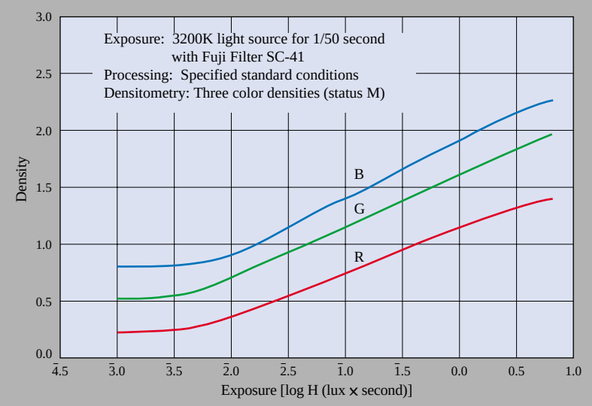
Spectral density curves

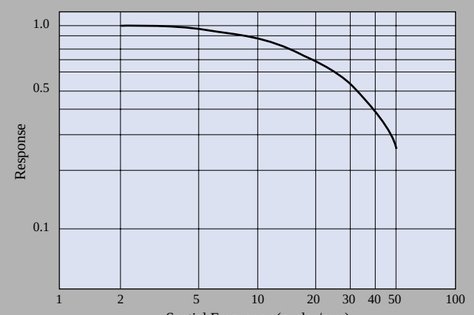


Characteristic curves



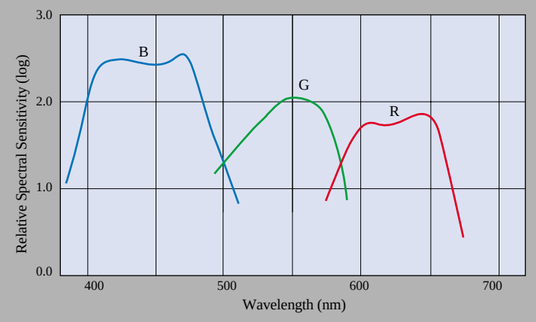
In order to simulate conditions closest to practical use, exposure was made under a 3200K tungsten light source, through a Fuji SC-41 ultraviolet absorbing filter. Processing was carried out under standard conditions and the three color densities were measured, producing the results indicated here.

Contrast transfer function*



***** Spatial frequency attenuation characteristic of amplitude relative to rectangular wave chart.
(Data is normalized for amplitude of zero frequency.)

Spectral sensitivity curves



Processing : Specified Standardized Conditions
Densitometry : Arbitrary Three Color Densities
Density : 0.40 above Minimum Density
Sensitivity : Reciprocal of Exposure (ergs/cm²)
Required to Produce Specified Density

RMS granularity

3.7 (1,000 times the data obtained from measurement taken at a visual diffuse density of 1.0 above minimum density, using a 48µm diameter aperture)

FUJIFILM
FUJI PHOTO FILM CO., LTD.
26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN

Ref. No. KB-001E(SK·00·05·DT·MW) Printed in Japan

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SUPER F SERIES

FUJICOLOR NEGATIVE FILM

F-400

35mm Type 8582 / 16mm Type 8682

An entirely new film – and an entirely new range of expressive possibilities

With the growing diversity and sophistication of film production techniques, today's professionals increasingly demand filmstock that combines the benefits of fine detail, rich tonality and color reproduction, and high effective speed. Drawing upon its world-class expertise in emulsion technology, Fujifilm now presents a totally new type of color motion picture negative film to meet exactly these needs: Fujicolor F-400. It offers a superbly smooth tonal scale. A subtle, delicate palette of colors. And fast E.I.400 film speed. In short, everything you need to capture the world in a beautiful new way.

FUJICOLOR NEGATIVE FILM F-400

SUPER F SERIES

Rich tonality and controlled contrast

Despite its high speed, F-400 never exaggerates contrast. It maintains a smooth, extended tonal scale from bright, clean highlights to deep, black shadow. Whatever the lighting conditions, tonality is rich and full.

Outstanding shadow detail

Shadow detail is a F-400 specialty, making it ideal for available-light and other low-light applications. Even when moderately overexposed, it continues to hold shadow detail and density.

Restrained saturation for subtle color

Another key F-400 feature is its graceful handling of color. Its palette is subtle and restrained. This makes it an ideal choice for creative, atmospheric film assignments.

Excellent telecine characteristics

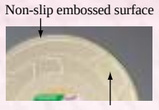
Thanks to its linear response and natural color balance, F-400 transfers easily to tape with minimal color correction. Its exquisite shadow detail makes it particularly useful for digitally post-processed commercial, promotional, and other TV work.

Fine high-speed granularity

Grain is exceptionally fine for a E.I.400 film, assuring superb image quality in a wide spectrum of scenes and situations.

Convenient new can design

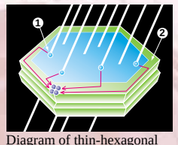
For easier use, the new cans feature more durable embossing. Other safety and convenience features include a non-slip stackable design.



The two key technologies behind New F-400's superior image quality

World-class grain structure: SUFG technology

The newly developed flat, hexagonally shaped grain structure allows smaller grain size – just 1/3 the size of conventional grain – with no loss in emulsion speed. Each grain has a large surface area relative to its size, maximizing its light-gathering efficiency. The grain structure is further designed to allow each grain to gather surrounding photons generated at the time of exposure, for extremely efficient latent image formation.



Even greater sharpness: DIR technology

Fujifilm's Super DIR Couplers provide more precise control over the release of development inhibitors between adjacent layers of the emulsion during processing. Two-Stage Timing DIR Couplers further refine this process through a two-stage chemical reaction, enhancing edge effect for dramatically increased sharpness.

• Exposure Index

Tungsten light ····· 400
Daylight ····· 250 (with Fuji Light Balancing Filter LBA-12 or Kodak Daylight Filter No.85)

These numbers are appropriate for use with exposure meters marked for ISO/ASA speeds. Note however that the recommended exposure indexes may not apply exactly due to differences in the usage of exposure meters, processing, and other conditions. For best results, refer to the instructions for the exposure meter used and test exposures prior to use.

• Color balance

This film is balanced for exposure to 3200K tungsten illumination, and requires no light balancing or conversion filters under these conditions. For daylight outdoors or in other different lighting conditions, please follow the following filtration and exposure recommendations.

Light source	Filter	Exposure index
Tungsten Light (3200K)	None	400
Daylight (Sunlight + Skylight)	Fuji Filter LBA-12 or Kodak Filter No.85	250
Metal Halide Lamps (e.g. HMI)	Fuji Filter LBA-12 or Kodak Filter No.85	250
Ordinary Fluorescent Lamps White Light Type	Fuji Filter CC-30R or Kodak Filter CC30R	200
Daylight Type	Fuji Filter LBA-12 or Kodak Filter No.85	250
Three-band Fluorescent Lamps White Daylight Type (5000K)	Fuji Filter CC-30R or Kodak Filter CC30R	200
Daylight Type (6700K)	Fuji Filter CC-40R or Kodak Filter CC40R	160

The above filter recommendations should provide approximate color conversion. Final color correction should be made when making prints.

• Reciprocity characteristics

No filtration or exposure compensation is required at exposures of 1/10 to 1/1000 sec. At an exposure of 1 sec., add 1/3 stop.

• Edge markings

This film is marked with the MR code system as follows: edge number, film code (FN82) and machine-readable bar code equivalent, film name (FUJI F400), emulsion number, roll number, frame marks (4 perforations for 35mm, none for 16mm), etc.