#135
HN/VLD LASER FILM

Description
#135 HN/VLD is a "unique" film designed for economy applications. By choosing a quality developer and modifying the ratio of developer concentrate to water, one can elevate this film's performance significantly.

When processed in a good processor with good recirculation, and an excellent Hard Dot developer mixed 1 part concentrate to 2 parts water, #135 HN/VLD acquires "sharp edged" linear dot characteristics.

While the sharpness and acuity of #135 HN/VLD dots produces tone reproduction that rivals our higher quality Hard Dot films, it does so at a somewhat lower overall density.

Another "unique" quality of #135 HN/VLD is its emulsion's response to "push processing". #135 HN/VLD Film adds speed and density with slightly increased development times or developer temperature, allowing the customer significant latitude to simply and easily adjust performance.

Sensitivity
#135 HN/VLD 633nm to 670nm HN/Red Laser Diode

Safelight
Encapsulite T20/ND 1.05

Processing
Developer:*
Process in #1 Network Developers for the optimum results.
Mixed 1 part concentrate to 2 parts water.
Note: 1:3 can be utilized, but will lessen dot quality and D-Max.

Temperature: 95ºF to 100ºF / 35ºC to 37.8ºC

Development Time: 30 to 35 Seconds

Replenishment Rates
Developer: 45ml mixed 1:2 per square foot (1.50 oz.)
Fixer: 35ml per square foot (1.2 oz.)

Recommended Fixers:
#1 Network Universal Fixer Concentrate,
3100 Fixer - mixed 1:3
Note: Hardener should be added.

Recommended Procedure for Processing
This procedure is suggested, to avoid an underdeveloped/overexposed situation at the imagesetter.

1) Cut a 3 to 4 inch strip from film protruding from take-up or feed cassette.
2) Develop the excessively exposed strip.
3) When properly developed, the strip D/Max should be 4.40 plus. With full development, the emulsion sensitivity is maximized.
4) With a 4.20 plus D/Max, the product is ready for exposure calibration in the imagesetter. (see below)

Exposure Calibration
In hard dot developers mixed 1:2 (Kodak RA2000, #1 Network Rapid, 2020HD, & 2100), the D/Max should be 4.20 to 4.40. After correct exposure is obtained, the imagesetter should then be calibrated to proper dot percentages.

*For optimum results, process in any of these developers:
#1 Network 2100 HD Developer
#1 Network Rapid HD Developer

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