

12 VISUAL TROUBLESHOOTING OF PROCESS E-6

Once you have eliminated improper film storage and incorrect exposure as causes of poor-quality transparencies on KODAK EKTACHROME Film, check for processing problems. These problems include errors in chemical mixing, order of processing steps, processing temperature, agitation, washing, replenishment, and solution contamination.

A visual check of the processed film is one way to make an initial diagnosis. You can make a more thorough determination of the cause of processing problems and the corrective action to take by plotting and evaluating your control-strip densities; see section 13, "Process Monitoring."

Table 12-1
Troubleshooting from the Appearance of Processed Film

Appearance of Film		Possible Cause
Very High Maximum Density (very dark no apparent image)	No Edgeprint Visible	First developer omitted
	Edgeprint Visible	First developer and color developer reversed Film not exposed
Dark Overall		Inadequate time or low temperature in first developer First or color developer diluted or exhausted Color developer starter added to first developer Too much first developer starter used First developer or first and color developers underreplenished
Very Dark (overall or in random areas)		Bleach or fixer (or both) omitted, reversed, diluted, exhausted, or underreplenished
Light Overall		Too much time or high temperature in first developer Film fogged by light before processing First or color developer (or both) too concentrated First or color developer (or both) overreplenished First developer starter omitted First developer contaminated with reversal bath or color developer First developer contaminated with fixer
Image Very Faint or No Image (film may show colored streaks)		First developer used twice or color developer omitted Severe light fog
Overall Density Variation from Batch to Batch		Inconsistent first-developer time, temperature, agitation, or replenishment
Blue		First developer contaminated with fixer Reversal bath overconcentrated Too little first developer starter used
Cyan		First-wash temperature too low
Yellow		Color-developer starter added to first developer Too much first developer starter used Inadequate bleaching or fixing
Yellow-Red		First developer with color developer starter added Underreplenishment of first developer or color developer
Low Density Blue; High Density Yellow		Color developer contaminated with fixer
Green		Reversal bath exhausted, diluted, or underreplenished Film fogged by green safelight Wash used between color developer and reversal bath Color developer dilute Color pH high Too much Part A in color developer Overreplenished color developer A dilute color developer Color developer mixed using first developer starter

Appearance of Film	Possible Cause
Red	Inadequate aeration of bleach Pre-bleach concentration too high Inadequate aeration of fixer First-wash temperature too high Severely oxidized color developer
Magenta	Color developer pH low Color developer concentrated Too much Part B in color developer Underreplenished color developer
Cross-Width Bar Marks (with stainless-steel reels)	Gaseous-burst agitation used in first developer Incorrect or inadequate manual agitation
Scum and Dirt*	Bio-growth (slime) in final rinse (drain and replace) Air filters in dryer need changing Dirt in solutions; use floating covers on processor and replenisher solution tanks Final rinse overconcentrated Precipitate in pre-bleach Dirt from dryer Fixer sulfurized Defoamer added directly to any solution or too much defoamer used
Surface Spots (appear dark by transmitted light)	Dirt from final rinse Water spotting. Final rinse too dilute Dirt from dryer Fixer sulfurized Dryer temperature too high
Streaks—Nonuniformity	Bleach or fixer time too short, temperature too low, or replenisher too dilute Uneven or insufficient agitation, particularly in first and color developers Nonuniform agitation in first and color developers Low first-wash flow rate Foam rundown
Scratches and Abrasions	Dirty squeegee blades Jammed, misaligned, or dirty rollers Cinch marks due to excessive take-up tension Dirt from loading area Dirt from camera
Light Density Spots, Streaks, or Patterns	Static Fog
Stain	Loss of bleach, fixer, or pre-bleach activity Fixer sulfurized by excessive aeration Bleach not sufficiently aerated Color-developer time too long or temperature too high Inadequate first-developer agitation

* A buildup of fungus or algae in processing solutions or wash tanks can cause dirt. To minimize buildup, drain wash tanks when they are not in use. When you expect the processor to be out of use for more than six weeks, drain and rinse the reversal-bath processor tank and replenisher storage tanks. To remove fungus or algae, scrub the tank with a stiff-bristle brush, using a 30 to 50 mL/L sodium hypochlorite solution (household bleach). Rinse the tank **thoroughly** with water to remove all traces of the hypochlorite solution. **Do not** use a sodium hypochlorite solution in the wash tank that follows the fixer. Use a 5- to 25-micrometre (or finer) filter for your water supply.

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