Carestream DENTAL

Processing Guidelines

Manual Processing

Extraoral Radiographs	Develop*	Rinse†	Fix	Wash
Carestream Dental Extraoral Films	GBX Developer and Replenisher	Fresh Running Water	GBX Fixer and Replenisher	Clean Running Water (Approx. 8 Volume Changes per Hour)
T-MAT G/RA	21 °C (70 °F) 4½ min	15.5-29.5 °C (60-85 °F) 30 s agitate continuously	15.5-29.5 °C (60-85 °F) 2-4 min or twice the clearing time, intermittent agitation	15.5-29.5 °C (60-85 °F) 5 min

Intraoral Radiographs	Develop*	Rinse†	Fix	Wash
Carestream Dental Intraoral Films	GBX Developer and Replenisher	Fresh Running Water	GBX Fixer and Replenisher	Clean Running Water (Approx. 8 Volume Changes per Hour)
INSIGHT Ultra-speed	20 °C (68 °F) 5 min 21 °C (70 °F) 4½ min 22 °C (72 °F) 4 min 24.5 °C (76 °F) 3 min 26.5 °C (80 °F) 2½ min	15.5-29.5 °C (60-85 °F) 30 s agitate continuously	15.5-29.5 °C (60-85 °F) 2-4 min or twice the clearing time, intermittent agitation	15.5-29.5 °C (60-85 °F) 10 min

1. Prepare developer and fixer solutions according to directions on the containers.
2. Use an accurate thermometer to determine the temperature of the developer solution for the selected film.
3. Carefully attach films to the film hangers.
4. Set the timer according to the chart for the developer temperature.

*5. Immerse the film (attached to film hanger) quickly into the developer solution, dislodging air bubbles by vigorously moving the film hanger in the solution for 5 seconds.

*6. Do not agitate film during development.

7. Remove the hanger from the developer when the timer sounds. Drain the excess developer into the water bath; do not drain it back into the developer tank.

†8. Immerse the hanger rapidly into the water rinse tank. Agitate continuously during the water rinse procedure.

9. Place the hanger in the fixer solution. Intermittent agitation (5 seconds every 30 seconds) should be used throughout the fixing procedure. Excess fixer should be drained into the water bath rather than back into the fixer tank.

10. Place the hanger in the wash tank; wash in clean running water.

11. Dry at room temperature in a dust-free area or suitable drying cabinet, temperature not to exceed 49 °C (120 °F).

12. Replenishment: add 237 ml (8 ounces) of replenisher per one gallon (3.8 L) of developer and fixer working solutions each day even if no film is processed in the chemicals.

Processing Guidelines

Automatic Processing

Extraoral Radiographs

All Carestream Dental Extraoral Films	Cycle*	Dev Temp
Automatic dental processor using READYMATIC dental chemicals	5 min	28.3 °C (83 °F)

Intraoral Radiographs

All Carestream Dental Intraoral Films	Cycle*	Dev Temp
Automatic dental processor using READYMATIC dental chemicals and READYPRO dental chemicals	5 min	28.3 °C (83 °F)

*If you cannot identify your processor's cycle time, refer to the equipment manufacturer for more information.

Processing times and temperature will vary based on processor. These values are only guidelines.

Replenishment Rates

If your intraoral film processor does not have automatic replenishment, Carestream Dental recommends 237 ml (8 ounces) of replenisher be added to each working solution daily, even if no film is processed. This is based on an average daily run of 20-30 intraoral films per day. You should increase the amount of daily replenisher solution at the rate of 7 ml (0.25 fluid ounces) per additional film processed. E.g., 50 intraoral films per day would require that 148 ml (5 additional ounces) be added to the daily 385 ml (8 ounces for a total of 13 ounces). All replenished solutions should be changed every 3-4 weeks under normal conditions. (Normal use is defined as 30 intraoral films per day.) Manufacturers of automatic non-roller type processors recommend that all solutions be changed every two weeks.

For more information, call **800.933.8031** or visit **carestream.com.**

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