

**TECHNICAL INFORMATION BULLETIN****KODAK Medical X-ray Developer and Replenisher****Mixing Instructions**

Updated March 15, 2002

Important Information Before You Begin

- Observe the precautionary information on the containers.
- Use ventilation with enough air circulation or exhaust to keep the mixing area free from strong odors (change 10 room-volumes of air per hour).
- Wear rubber gloves, eye protection (visor goggles or face shield), and a chemically impervious apron when mixing chemicals.
- To avoid release of irritating vapor(s), always follow mixing instructions.
- Always measure and record the quantity of developer replenisher solution in the mixing tank before mixing.
- Be sure the tank has enough room to accept the additional amount of liquid volume to be mixed.
- The concentrates must not be mixed without the recommended dilution.
- The 265-gallon (1000 litre) size consists of three (3) containers of concentrate:
 - Part A (1 drum)
 - Part B (2 bottles)
 - Part C (2 bottles)

To Prepare a Developer Replenisher Solution

Warning: Do not agitate excessively. Agitation must be sufficient to properly blend the solution; however, excessive agitation may draw air into the solution resulting in oxidized developer.

To Make	Add Water 75°F (24°C)	While Stirring Continuously, Slowly Add (in order)		
		Part A*	Part B*	Part C*
265 Gallons (1000 Litres)	208 gallons (787 litres)	1 full drum 52.8 Gallons (200 Litres)	2 bottles 2.5 Gallons (9.5 Litres)	2 bottles 1.5 Gallons (5.67 Litres)
250 Gallons (946 Litres)	196 Gallons (742 Litres)	50 Gallons (189 Litres)	2.36 Gallons (8.9 Litres)	1.42 Gallons (5.38 Litres)

* After adding, continue stirring until chemicals are dissolved and the solution is completely mixed.

To Make	Add Water 75°F (24°C)	While Stirring Continuously, Slowly Add (in order)		
		Part A*	Part B*	Part C*
200 Gallons (757 Litres)	157 Gallons (594 Litres)	40 Gallons (151 Litres)	1.89 Gallons (7.15 Litres)	1.14 Gallons (4.32 Litres)
150 Gallons (568 Litres)	118 Gallons (446.7 Litres)	30 Gallons (113.5 Litres)	1.41 Gallons (5.34 Litres)	108.8 Fl. Oz. (3.21 Litres)
132 Gallons (500 Litres)	103.4 Gallons (391 Litres)	26.4 Gallons (100 Litres)	1.35 Gallons (5.11 Litres)	95 Fl. Oz. (2.81 Litres)
100 Gallons (378.5 Litres)	78.4 Gallons (296.8 Litres)	20 Gallons (75 Litres)	120 Fl. Oz. (3.55 Litres)	72.4 Fl. Oz. (2.14 Litres)
50 Gallons (189.3 Litres)	39.2 Gallons (148.4 Litres)	10 Gallons (37.8 Litres)	60 Fl. Oz. (1.77 Litres)	36.2 Fl. Oz. (1.07 Litres)
25 Gallons (94.6 Litres)	19.6 Gallons (74.2 Litres)	5 Gallons (18.9 Litres)	30 Fl. Oz. (0.89 Litres)	18.1 Fl. Oz. (0.535 Litres)

* After adding, continue stirring until chemicals are dissolved and the solution is completely mixed.

Additional Information

MSDS

Material Safety Data Sheets are available online via the [MSDS Search Page](#).

Storage and Handling

[Click Here](#) for Storage and Handling Conditions for KODAK Medical Processing Chemicals.

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