



Manual Processing Guidelines

Recommended Time/Temperature Chart

Developer

Film Type	Degrees F	Degrees C	Time in Developer (Minutes)
Medical & Cine	80 ⁰	27 ⁰	1 ½ - 2
	75 ⁰	24 ⁰	2 - 3
	70 ⁰	21 ⁰	3 - 5
Industrial & Dental	65 ⁰	18 ⁰	4 - 6
	75 ⁰	24 ⁰	3 - 5
	70 ⁰	21 ⁰	5 - 8
	65 ⁰	18 ⁰	6 - 10

Fixer

Film Type	Degrees F	Degrees C	Time in Fixer (Minutes)
Medical & Cine	70 ⁰ - 80 ⁰	21 ⁰ - 27 ⁰	2 - 4
	60 ⁰ - 68 ⁰	15.5 ⁰ - 20 ⁰	3 - 5
Industrial	70 ⁰ - 80 ⁰	21 ⁰ - 27 ⁰	3 - 8
	60 ⁰ - 68 ⁰	15.5 ⁰ - 20 ⁰	5 - 12
Dental	70 ⁰ - 80 ⁰	21 ⁰ - 27 ⁰	2 - 4
	60 ⁰ - 68 ⁰	15.5 ⁰ - 20 ⁰	3 - 6

Processing Guidelines

- Mix developer and fixer solutions according to directions.
- Keep separate bottles of mixed developer and fixer for replenishment purposes*
- Tanks must be stirred and replenished each morning to assure optimum film quality. Add approximately 8 ounces of the appropriate replenisher for each gallon of developer and fixer working solutions regardless of the visible level in each tank. To prevent the tanks from overflowing, you may need to remove some of the existing solution before adding replenisher.
- Always use separate paddles for mixing the developer and fixer. Label each paddle accordingly to prevent contamination. Wash paddles after each use.
- Solutions should be changed every 3-4 weeks under normal usage.

To extend the life of your replenisher solutions, store in an airtight container away from direct sources of heat and light.

This chart is intended for reference only.
Results may vary based on processing conditions.