

## Processor - Artefacts

Problem:	Recommendation:
<b>Screen</b>	
Dirt or dust on screens prevents exposure of the film through the screen light. This leads to white or light spots on the film.	<ul style="list-style-type: none"> <li>• clean the screen</li> <li>• remove dust or dirt</li> </ul>
<b>Processor (pic-off)</b>	
Contaminated, damaged or rough rollers pick off emulsion particles from the film. This results in white (transparent) patches on the developed mammography film.	<ul style="list-style-type: none"> <li>• clean the rollers and replace if necessary</li> </ul>
<b>Handling Errors</b>	
Light semicircles or <b>light</b> pressure points occur because the film has been bent or folded over <b>before</b> exposure (desensitisation).	<ul style="list-style-type: none"> <li>• carefully place films in the cassette, making sure they are not folded over</li> </ul>
Dark semicircles or <b>dark</b> pressure points occur because the film has been bent or folded over <b>after</b> exposure (sensitisation).	<ul style="list-style-type: none"> <li>• carefully remove films from the cassette, making sure they are not bent</li> </ul>
<b>Static Electricity</b>	
	<ul style="list-style-type: none"> <li>• increase atmospheric humidity</li> <li>• apply anti-static spray to workstation, feeding table and cassettes</li> <li>• check earthing of the continuous processor</li> <li>• check clothing of darkroom personnel for synthetic fabrics</li> </ul>

## Processor - Wet or Damp Films

Problem:	Recommendation:
The type of film used is not suitable for the process (e.g. if film is designed for processing times of 90 s or more in the RP or RA process).	<ul style="list-style-type: none"> <li>• change the film material or apply the correct processing time</li> </ul>
insufficient hardening in developer	<ul style="list-style-type: none"> <li>• increase the replenishment rate</li> </ul>
incorrect developer or fixing mixture, e.g. without hardener	<ul style="list-style-type: none"> <li>• add hardener</li> </ul>

insufficient hardening in fixing bath	<ul style="list-style-type: none"> <li>increase the replenishment rate and if necessary check the recycling unit</li> </ul>
hardener-free developer is used	<ul style="list-style-type: none"> <li>only use films with modern crystal technology</li> </ul>
drying temperature is too low	<ul style="list-style-type: none"> <li>check the thermostat or infra-red heater</li> </ul>
poor air circulation	<ul style="list-style-type: none"> <li>check the drying unit</li> </ul>
inadequate washing	<ul style="list-style-type: none"> <li>check the water supply and flow rate</li> </ul>

## Processor - Films Have Dirt on Them

Problem:	Recommendation:
rollers in the processor, especially the drying rollers and crossover rollers, are contaminated	<ul style="list-style-type: none"> <li>clean the rollers</li> </ul>
algae are growing in the intermediate rinse	<ul style="list-style-type: none"> <li>clean the rinsing channels</li> </ul>
algae are growing in the final rinse	<ul style="list-style-type: none"> <li>use algaecide either continually (in pump) or discontinuously after working with the processor</li> <li><b>or</b></li> <li>when draining the water after working with the processor</li> </ul>
filter in the developer is blocked	<ul style="list-style-type: none"> <li>remove or replace filter</li> </ul>
baths are contaminated	<ul style="list-style-type: none"> <li>prepare a new batch (maintenance)</li> </ul>