

# DIN ISO 18901:2007-06 (E)

## Imaging materials - Processed silver-gelatin type black-and-white films - Specifications for stability (ISO 18901:2002)

---

<b>Contents</b>		<b>Page</b>
National foreword .....		3
National Annex NA (informative) Bibliography .....		3
Introduction .....		4
1 Scope .....		5
2 Normative references .....		5
3 Terms and definitions .....		6
4 Film base requirements .....		7
5 Processed film requirements .....		7
5.1 Storage conditions .....		7
5.2 Safety film .....		7
5.3 Amount of free acid .....		7
5.4 Tensile properties and loss in tensile properties .....		7
6 Requirements for the emulsion and backing layers of processed film .....		8
6.1 Layer adhesion .....		8
6.2 Emulsion flow .....		8
6.3 Blocking .....		8
6.4 Thiosulfate concentration .....		8
6.5 Residual silver compounds .....		9
7 Image stability requirements .....		9
7.1 General .....		9
7.2 Radiographic films .....		10
7.3 Microfilms .....		10
7.4 Other films .....		10
8 Test methods .....		10
8.1 Identification of film base .....		10
8.2 Accelerated-ageing conditions .....		10
8.3 Determination of the amount of free acid .....		11
8.4 Tensile property test for processed film .....		12
8.5 Tape-stripping adhesion test .....		12
8.6 Humidity-cycling adhesion test .....		13
8.7 Emulsion-flow test .....		14
8.8 Blocking test .....		14
8.9 Residual silver compound test .....		14
8.10 Image-stability test .....		15
Annex A (informative) Numbering system for related International Standards .....		16
Annex B (informative) Washing and the effect of residual thiosulfate on the developed silver image .....		18
Annex C (informative) Effect of residual silver compounds on the developed silver image .....		19

<b>Annex D (informative) Accelerated image-stability test for radiographic films .....</b>	<b>20</b>
<b>Annex E (informative) Accelerated image-stability test for microfilms .....</b>	<b>22</b>
<b>Annex F (informative) Accelerated image-stability test for aerial films .....</b>	<b>24</b>
<b>Bibliography .....</b>	<b>26</b>