

JIS

JAPANESE INDUSTRIAL STANDARD

**Automatic processors
for sheet films**

JIS Z 4919—1991

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Automatic processors for sheet films

Z 4919-1991

1. Scope

This Japanese Industrial Standard specifies automatic processors for sheet films to carry out automatically the development, fixing, water washing, and drying of medical X-ray photographic sheet films specified in JIS K 7521.

Remarks 1. Applicable Standards to this Standard are shown in the following:

JIS G 4304-Hot Rolled Stainless Steel Plates and Sheets

JIS G 4305-Cold Rolled Stainless Steel Plates and Sheets

JIS K 6745-Rigid Polyvinyl Chloride Plates

JIS K 7521-Dimensions for Photographic Film in sheets and Rolles for Medical, Industrial and Dental Radiography

JIS K 7651-Photography - Density Measurements - Part 1: Terms, Symbols and Notations (ISO 5/1-1984)

JIS K 7652-Photography - Density Measurements - Part 2: Geometric Conditions for Transmission Density (ISO 5/2-1985)

JIS K 7653-Photography - Density Measurements - Part 3: Spectral Conditions (ISO 5/3-1984)

JIS T 1005-Style Manual for Instruction Manuals

JIS Z 4701-General Rules for Medical X-Ray Equipment

JIS Z 4703-General Rules of Mechanical Units for Medical X-Ray Apparatus

JIS Z 8120-Glossary of Optical Terms

JIS Z 8704-Electrical Methods of Temperature Measurements

2. The units and numerical values given in { } in this Standard are based on the traditional units and are appended for informative reference.

2. Definitions

For the purposes of this Standard main definitions are in accordance with JIS K 7651 and JIS Z 8120, and to others the following definitions apply.

- (1) Treating time The time since the time point when the top end of short side of a sheet of film (nominal dimension 24×30 specified in JIS K 7521) is inserted into inserting opening of automatic processor and the transport is started until the last end of film goes out from the outlet.

- (2) Treating liquid The generic name of development liquid, fixing liquid and washing water.
- (3) Supplementation quantity The quantity of development liquid and fixing liquid to supplement in correspondence to size of film or number of inserting times of film for maintaining of a definite activity.
- (4) Actual treating capacity The maximum number of sheets capable of treating actually per 1 h of the automatic processor by using the short side of film (nominal dimension 24 × 30 specified in JIS K 7521) to the automatic processor.

3. Classification

The automatic processors shall be divided according to automatic treating item, and as given in Table 1.

Table 1. Classification

Classification	Type	Automatic treating item
Full automatic type automatic processor	FA-1 FA-2	Development, fixing, water washing, and drying
Simple type automatic processor	SA-1 SA-2	At least development, and fixing

Remarks: Meanings of terms used for type are as follows:

- F: indicates the full automatic type automatic processor.
- S: indicates the simple type automatic processor.
- A: indicates the nominal value of actual treating capacity by three places of numerals.
- 1, 2: indicate the grades of stability of treating liquid temperature and the like.
- N: relating to that tested in a specific environment or measuring condition range, N is described.

Example: The case where tested by simple type automatic processor of nominal value of actual treating capacity of 50 sheets in a special environment or measuring condition range and the value of stability of treating liquid temperature or the like corresponds to the upper step of Table 2.

Type S050-1N