

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1116

35 mm AND 16 mm MICROFILMS,
SPOOLS AND REELS

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BRIEF HISTORY

The ISO Recommendation R 1116, *35 mm and 16 mm microfilms, spools and reels*, was drawn up by Technical Committee ISO/TC 46, *Documentation*, the Secretariat of which is held by the Deutscher Normenausschuss (DNA).

Work on this question led to the adoption of a Draft ISO Recommendation.

In April 1968, this Draft ISO Recommendation (No. 1528) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Iran	South Africa, Rep. of
Belgium	Israel	Sweden
Canada	Italy	Switzerland
Czechoslovakia	Netherlands	Thailand
Denmark	New Zealand	Turkey
France	Norway	U.A.R.
Germany	Poland	United Kingdom
Hungary	Portugal	
India	Romania	

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in September 1969, to accept it as an ISO RECOMMENDATION.

CONTENTS

	Page
1. Scope	4
2. Specifications relating to unexposed negative film	4
3. Specifications relating to unexposed positive (print) film	5
4. Specifications relating to microfilms	5

35 mm AND 16 mm MICROFILMS, SPOOLS AND REELS

1. SCOPE

This ISO Recommendation covers microfilms in roll and strip form 16 mm and 35 mm wide, and their supply spools and reader reels.

It does not necessarily apply to microfilms of engineering drawings.

2. SPECIFICATIONS RELATING TO UNEXPOSED NEGATIVE FILM

2.1 Film stock

- 2.1.1 Unexposed negative film in roll form for the production of microfilms is characterized by its width, its useful length (i.e. exclusive of leader and trailer) and – if the film is perforated – by the number of rows of perforations, and the shape and pitch of these perforations.

Characteristics which are not the subject of particular specifications in this ISO Recommendation should conform to specifications for cinematographic films as indicated in ISO Recommendation R 69*, *Cutting and perforating dimensions for 16 mm motion-picture raw stock film*, and ISO Recommendation R 491, *Cutting and perforating dimensions for 35 mm motion-picture raw stock film*.

The microfilm thickness should not exceed 0.16 mm.

- 2.1.2 The useful length only is standardized. The film should be wound on a spool or a core (see clause 2.2.1). The use of a core for 30 m length is not recommended.

The useful length should be stated on the packing.

- 2.1.3 Unexposed negative film for microfilms should be made of safety stock, as specified in ISO Recommendation R 543, *Definition and marking of safety film for motion-picture uses*.

- 2.1.4 Films intended for the production of microfilms may be

- unperforated (for 16 mm and 35 mm widths);
- perforated on one edge only (for 16 mm width);
- perforated on both edges (for 35 mm width).

Unperforated film offers the possibility of using a larger area, but perforated film offers the advantage of constant registration of the position of the image with respect to the perforations.

- 2.1.5 For 16 mm microfilm, the perforation should be in accordance with that described in ISO Recommendation R 69*, *Cutting and perforating dimensions for 16 mm motion-picture raw stock film* and, for 35 mm microfilm, with one of those described in ISO Recommendation R 491, *Cutting and perforating dimensions for 35 mm motion-picture raw stock film*, under the designations "Type 1 and 1 a" (perforation known as "Positive") and "Type 3 and 3 a" (perforation known as "Negative").

- 2.1.6 The pitch of the perforations in negative films is generally the Standard pitch of 7.62 mm for 16 mm films and 4.75 mm for 35 mm films.

• 2nd edition (at present, Draft ISO Recommendation No. 852).