motion-picture standards

American Standard—PH22.98-1955

Published on this page is American Standard PH22.98-1955, 35mm 3-Track Magnetic Flutter Test Film, approved by the American Standards Association on July 8, 1955.

This standard had its trial publication in the February 1954 *Journal*. A phrase, "at any rate," was omitted by error from section 2.6 of the standard and a correction to this effect was published in the February 1955 *Journal*. In the subsequent processing of the standard quite a few modifications were adopted which improved the wording and made for greater clarity but left the substance unchanged. This standard thus differs in several ways from the draft published initially.—*Henry Kogel*, Staff Engineer

American Standard

35mm 3-Track Magnetic Flutter Test Film

ASA
Reg. U.S. Pat. Off.
PH22.98-1955
*UDC 778.534.4

1. Scope

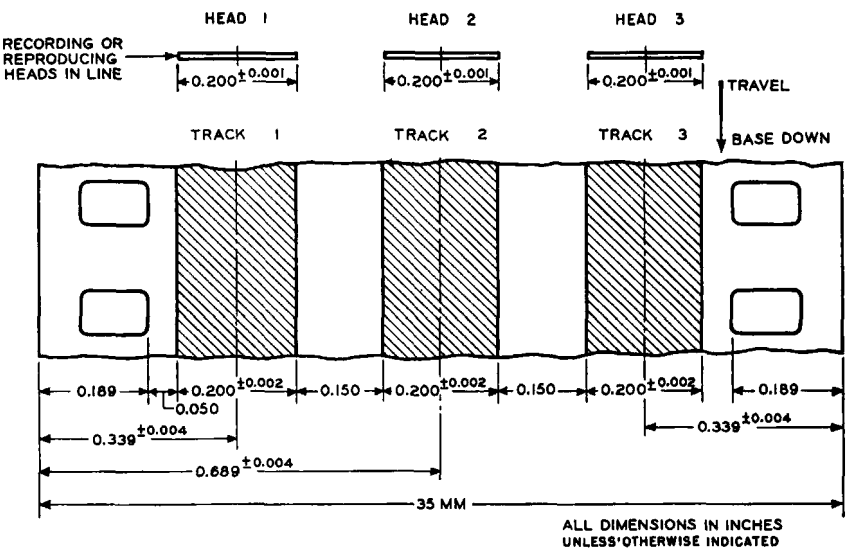
1.1 This standard specifies a 3000-cycle magnetic sound test film for use in determining the presence of flutter in 35mm magnetic sound reproducers.

2. Test Film

2.1 The test film shall have an original magnetic sound recording.

2.2 The coated side and direction of travel shall be as specified in American Standard PH22.86-1953, 200-Mil Magnetic Sound Tracks on 35mm and 17½mm Motion-Picture Film, or the latest revision thereof approved by the American Standards Association, Incorporated, and the base shall be coated from one row of perforations to the other row, or from edge to edge.

2.3 Three sound records shall be recorded in accordance with the dimensions specified in American Standard PH22.86-1953 (as shown in the drawing below) or the latest revision thereof approved by the American Standards Association, Incorporated.



2.4 The recording frequency shall be 3000 ± 25 cycles per sec with a film travel rate of 96 perforations per sec (approximately 90 ft per min).

2.5 The modulation of the recording shall be such that the total harmonic distortion does not exceed 2½%.

2.6 The total rms flutter of the sound recorder shall not exceed 0.1% and the flutter amplitude at any single flutter rate shall not exceed 0.05% (as defined in American Standard Method for Determining Flutter Content of Sound Recorders and Reproducers, Z57.1-1954, or the latest revision thereof approved by the American Standards Association, Incorporated).

3. Film Stock

3.1 The film stock used shall be of the low-shrinkage, safety type, cut and perforated in accordance with American Standard PH22.36-1954 Dimensions for 35mm Motion Picture Positive Raw Stock, or the latest revision thereof approved by the American Standards Association, Incorporated.

4. Film Length

4.1 The film shall be supplied in 50-ft lengths or multiples thereof.

5. Identification

5.1 Each test film shall have suitable identification markings.

Approved July 8, 1955, by the American Standards Association, Incorporated
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