

Proposed American Standard  
**35mm Magnetic Azimuth Alignment**  
**Test Film**  
 (Third Draft)

PH22.99

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**1. Scope**

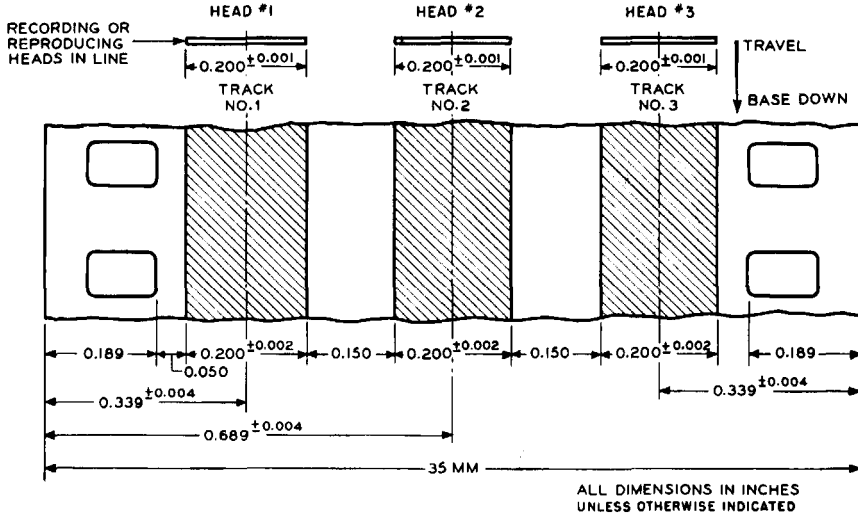
**1.1** This standard specifies a test film to be used in aligning the azimuth of magnetic heads on 35mm magnetic recording and reproducing equipment where the head width is not greater than 0.200 in.

**2. Test Film**

**2.1** The test film shall have an original recording of an 8000-cycle sinusoidal tone with

a film speed of 96 perforations per sec or 90 ft per min.

**2.2** Three sound records shall be recorded in accordance with the dimensions 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 as shown in the drawing.



NOT APPROVED

**2.3** The sound record shall have correct azimuth to within  $\pm 3$  min of arc.

**2.4** The recorded level at 8000 cycles shall be that level which results from an input current to the magnetic head which is 1 db below the 400-cycle current input which would give a total harmonic distortion of 2½% when that 400-cycle tone is reproduced.

**2.5** The coating position and direction of travel shall be as specified in American Standard PH22.86-1953, or the latest revision thereof, and the base shall be coated from one row of perforations to the other row, or from edge to edge.

### **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 Z22.36-1947, Cutting and Perforating Dimensions for 35-Millimeter 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.

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## American Standards PH22.75-1953 and PH22.90-1953 16mm A and B Windings, and Aperture Calibration of Lenses

Two American Standards approved by the American Standards Association on December 17, 1953, are published on the following pages. These two standards were published previously for trial and comment in the October 1952 and February 1953 *Journals*, respectively.