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Moving Picture
Films

WITHDRAWN

AS 2199—1978
UDC 778.354.455:771.531.352

TAS OCTOBER 1990

Australian Standard 2199, Parts 1 and 2 — 1978

MAGNETIC SOUND RECORDS ON MOTION-PICTURE FILM

Part 1—16 mm FILM

Part 2—8 mm TYPE S FILM



STANDARDS ASSOCIATION OF AUSTRALIA

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Broadcasting Commission
Australian Broadcasting Control Board
Australian Commonwealth Film Unit
Australian Film Producers Association
Confederation of Australian Industry
Federation of Australian Commercial Television Stations
Motion Picture Exhibitors Association
State Government Film Centres
The Australian Film Laboratories Association
The Australian Motion Picture Studios Association

This standard, prepared by Committee MS/27, Cinematography, was approved on behalf of the Council of the Standards Association of Australia on 7 August 1978, and was published on 1 September 1978.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 74001.

AUSTRALIAN STANDARD

**MAGNETIC SOUND
RECORDS ON
MOTION-PICTURE FILM**

Part 1

**RECORDING CHARACTERISTICS
FOR MAGNETIC SOUND RECORD
ON 16 mm FILM**

Part 2

**RECORDING CHARACTERISTICS
FOR MAGNETIC SOUND RECORD
ON 8 mm TYPE S FILM**

AS 2199, Parts 1 and 2—1978

First published 1978

**PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.**

ISBN 0 7262 1534 1

PREFACE

This standard was prepared by the Association's Committee on Cinematography. The separate Parts are technically identical with International Standards 1188 and 2968 respectively, published by the International Organization for Standardization (ISO) on the same topics. The 16 mm requirements in Part 1 have substantially the same technical content as the relevant part of Recommendation 265-2 of the International Radio Consultative Committee (CCIR). Acknowledgement is made of the assistance received from these sources.

The purpose of this standard is to define the frequency characteristics and tolerances for magnetic sound records on both 16 mm and 8 mm Type S motion-picture film. For 16 mm film tolerances are provided for film intended for exchange of television programs as well as for film intended to be shown on portable equipment.

This standard is intended to supplement AS 1452, Magnetic Sound Records on 35 mm Perforated Film.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard for MAGNETIC SOUND RECORDS ON MOTION-PICTURE FILM

PART 1. RECORDING CHARACTERISTICS FOR MAGNETIC SOUND RECORD ON 16 mm FILM

1.1 SCOPE OF PART. This Part of this standard specifies the recorded characteristic for magnetic sound records on perforated 16 mm magnetic motion-picture film and 16 mm motion-picture film with magnetic striping when used at the nominal speed of 24 frames (18.3 cm) per second, or 25 frames (19.05 cm) per second.

NOTE: This Part has substantially the same technical content as the relevant portion of CCIR Recommendation 265-2.

1.2 RECORDED CHARACTERISTIC. With constant sine-wave signal applied to the input of the recording system, the nominal characteristic in effective values of the short-circuit magnetic flux versus frequency shall fall with increasing frequency in conformity with the impedance of a parallel combination of a capacitance and a resistance having a time constant $t = 70 \mu\text{s}$.

The curve defined above is represented by—

$$N = -10 \log_{10} (1 + 4 \pi^2 f^2 t^2)$$

where

N = the recorded level in decibels

f = the frequency in hertz

t = the time constant in seconds.

The approximate numerical values are given in Table 1.1.

1.3 TOLERANCES.

1.3.1 Television Programs. Magnetic sound records on films for the exchange of television programs shall be recorded to the characteristic specified in Clause 1.2 within the tolerances given in Fig. 1.1.

1.3.2 Portable Equipment. For sound records primarily intended for reproduction on portable equipment, the tolerances of Fig. 1.2 may be applied instead of the tolerances of Fig. 1.1.