

---

# International Standard



# 7298

---

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

---

## **Information processing — Magnetic disk for data storage devices — 158 000 flux transitions per track, 210 mm (8.3 in) outer diameter, 100 mm (3.9 in) inner diameter**

*Traitement de l'information — Disque magnétique pour unités de stockage des données — 158 000 transitions de flux par piste, diamètre extérieur 210 mm (8,3 in), diamètre intérieur 100 mm (3,9 in)*

**First edition — 1985-05-01**

---

**UDC 681.327.63**

**Ref. No. ISO 7298-1985 (E)**

**Descriptors :** data processing, information interchange, data storage devices, magnetic disks, physical properties, magnetic properties, dimensions, tests.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7298 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

## Contents

	Page
1 Scope and field of application .....	1
2 Reference .....	1
3 General requirements .....	1
4 Dimensions .....	2
5 Physical characteristics .....	2
6 Testing of magnetic characteristics .....	4
7 Surface tests .....	7
8 Track quality tests .....	7
9 Requirements for magnetic surfaces .....	8
10 Defects of the magnetic surfaces .....	8
 <b>Annexes</b>	
A Air cleanliness class 100 .....	12
B Method for measuring friction between head and disk .....	13
C Measurement of the effective track width .....	15

This page intentionally left blank

# Information processing — Magnetic disk for data storage devices — 158 000 flux transitions per track, 210 mm (8.3 in) outer diameter, 100 mm (3.9 in) inner diameter

## 1 Scope and field of application

This International Standard specifies the mechanical, physical and magnetic characteristics of a lubricated magnetic disk of 210 mm (8.3 in) outer diameter and 100 mm (3.9 in) inner diameter intended for mounting in data storage devices.

The International Standard defines the requirements for a disk to give satisfactory performance at 158 368 flux transitions per track.

When used at other densities, equivalent performance may require changes to the mechanical, magnetic and electrical criteria.

NOTE — The original design of the subject of this International Standard was made using the Imperial measurement system. Some later developments, however, have been made using SI units. In the process of conversion into the alternative system, values may have been rounded. Therefore, the two sets of figures are consistent with, but not exactly equal to, each other. Either set may be used, but the two shall be neither mixed nor reconverted.

## 2 Reference

ISO 1302, *Technical drawings — Method of indicating surface texture on drawings.*