

# INTERNATIONAL STANDARD

# ISO 6225-2

Second edition  
1990-12-01

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## **Rubber, raw, natural — Determination of castor oil content —**

### **Part 2 : Determination of total ricinoleic acid content by gas chromatography**

*Caoutchouc naturel brut — Détermination de la teneur en huile de ricin —*

*Partie 2 : Détermination de la teneur en acide ricinoléique total par chromatographie  
en phase gazeuse*



Reference number  
ISO 6225-2 : 1990 (E)

## 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6225-2 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This second edition cancels and replaces the first edition (ISO 6225-2 : 1983), of which it constitutes a minor revision.

ISO 6225 consists of the following parts, under the general title *Rubber, raw, natural* — *Determination of castor oil content*:

- *Part 1: Determination of castor oil glycerides content — Thin layer chromatographic method*
- *Part 2: Determination of total ricinoleic acid content by gas chromatography*

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Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

## Introduction

Certain grades of natural rubber are treated with castor oil to facilitate crumbing of the rubber during production. ISO 6225 is intended to facilitate estimation of the amount of castor oil remaining in the rubber.

The principal constituent of castor oil, making up about 80 % (*m/m*) to 85 % (*m/m*), is the triglyceride of ricinoleic acid. This glyceride may partly hydrolyse to ricinoleic acid and glycerol. Provided the rubber is stored under normal conditions, determination of the castor oil glycerides content will give a good indication of the amount of castor oil added to the rubber.