



SLOVENSKI STANDARD
SIST EN ISO 1401:2000
01-december-2000

Gumene cevi za škropljenje v poljedelstvu (ISO 1401:1999)

Rubber hoses for agricultural spraying (ISO 1401:1999)

Gummischläuche zum Sprühen in der Landwirtschaft (ISO 1401:1999)

Tuyaux en caoutchouc pour pulvérisation agricole (ISO 1401:1999)

Ta slovenski standard je istoveten z: EN ISO 1401:1999

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ICS:

23.040.70 Gumene cevi in armature Hoses and hose assemblies

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 1401

December 1999

ICS 83.060; 83.140

English version

Rubber hoses for agricultural spraying (ISO 1401:1999)

Tuyaux en caoutchouc pour pulvérisation agricole (ISO
1401:1999)

Gummischläuche zum Sprühen in der Landwirtschaft (ISO
1401:1999)

This European Standard was approved by CEN on 13 November 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard ISO 1401:1999 has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" in collaboration with Technical Committee CEN/TC 218 "Rubber and plastics hoses and hose assemblies", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2000, and conflicting national standards shall be withdrawn at the latest by June 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

Endorsement notice

The text of the International Standard ISO 1401:1999 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

INTERNATIONAL STANDARD

ISO 1401

Third edition
1999-12-01

Rubber hoses for agricultural spraying

Tuyaux en caoutchouc pour pulvérisation agricole

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 1401 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This third edition cancels and replaces the second edition (ISO 1401:1987), which has been technically revised.

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Rubber hoses for agricultural spraying

1 Scope

This International Standard specifies requirements for three types of flexible rubber hose for pressure spraying of agro pharmaceutical and/or fertilizer products within a temperature range of -10 °C to $+60\text{ °C}$.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 37, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties.*

ISO 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests.*

ISO 471, *Rubber — Temperatures, humidities and times for conditioning and testing.*

ISO 1307, *Rubber and plastics hoses for general-purpose industrial applications — Bore diameters and tolerances, and tolerances on length.*

ISO 1402, *Rubber and plastics hoses and hose assemblies — Hydrostatic testing.*

ISO 1746, *Rubber or plastics hoses and tubing — Bending tests.*

ISO 1817, *Rubber, vulcanized — Determination of the effect of liquids.*

ISO 4671, *Rubber and plastics hoses and hose assemblies — Methods of measurement of dimensions.*

ISO 7326:1991, *Rubber and plastics hoses — Assessment of ozone resistance under static conditions.*

ISO 8033, *Rubber and plastics hose — Determination of adhesion between components.*

3 Classification

Three types of hose are specified as follows:

- type A: Maximum working pressure of 1,0 MPa (10 bar);
- type B: Maximum working pressure of 4,0 MPa (40 bar);
- type C: Maximum working pressure of 6,0 MPa (60 bar)