



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 13461:2001

ICS 55.120

**PACKAGING - CYLINDRICAL FLEXIBLE  
LAMINATED TUBES - DIMENSIONS AND  
TOLERANCES**

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ICS 55.120

English version

Packaging - Cylindrical flexible laminated tubes - Dimensions  
and tolerances

Emballage - Tubes souples laminés cylindriques -  
Dimensions et tolérances

Packmittel - Zylindrische Laminattuben - Maße und  
Toleranzen

This European Standard was approved by CEN on 1 December 2000.

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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 Management Centre has the same status as the official versions

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by July 2001, and conflicting national standards shall be withdrawn at the latest by July 2001.

It is based on the professional recommendations of the European Tube Association (ETA).

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.

## 1 Scope

This standard specifies sizes and geometric characteristics for cylindrical laminated flexible tubes which are produced by directly welding laminate materials.

It applies to tubes used for packaging pharmaceutical, cosmetic and hygiene products, as well as for packaging food, industrial and domestic products.

This standard does not contain requirements for materials but Annex A (informative) refers.

## 2 Terms and definitions

For the purposes of this standard, the following terms and definitions apply (see Figure 1).

### 2.1

#### **nominal diameter, $D$**

conventional indication utilized for the commercial description of the tube, which corresponds approximately to the outside diameter  $d_1$  of the body of the tube

### 2.2

#### **nominal length, $L$**

conventional indication utilized for the commercial description of the tube, corresponding approximately to the length  $l_1$ , measured between the shoulder and the opened end of the tube

### 2.3

#### **ovality diameter, $d_2$**

diameter of the largest circle which can enclose the tube at any point along the body of the tube

### 2.4

#### **wall thickness, $S_1$**

thickness of the body wall of the tube

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