



SLOVENSKI STANDARD SIST EN 12816:2002

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Transportable refillable steel and aluminium LPG cylinders - Disposal

Entsorgung von beschädigten Flüssiggas - (LPG) Flaschen aus Stahl und Aluminium

Bouteilles transportables et rechargeables en acier et en aluminium pour GPL -
Elimination

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Ta slovenski standard je istoveten z: ^{SIST EN 12816:2002} **EN 12816:2001**
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ICS:

13.030.50	Recikliranje	Recycling
23.020.30	V æ } ^ Á [• [á ^ Ê] ä • \ ^ b \ ^ } \ ^	Pressure vessels, gas cylinders

SIST EN 12816:2002 **en**

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EUROPEAN STANDARD

EN 12816

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2001

ICS 13.030.50; 23.020.30

English version

Transportable refillable steel and aluminium LPG cylinders - Disposal

Bouteilles transportables et rechargeables en acier et en
aluminium pour GPL - Elimination

Entsorgung von beschädigten Flüssiggas - (LPG) Flaschen
aus Stahl und Aluminium

This European Standard was approved by CEN on 28 December 2000.

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 Management Centre 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 Management Centre 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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 286 "Liquefied petroleum gas equipment and accessories", the secretariat of which is held by NSAI.

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.

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.

Users of this EN, prepared in the field of application of Article 118A of the EC Treaty, should be aware that standards have no formal legal relationship with Directives which may have been made under Article 118A of the Treaty. In addition, national legislation in the Member states may contain more stringent requirements than the minimum requirements of a Directive based on Article 118A. Information on the relationship between the national legislation implementing Directives based on Article 118A and this EN may be given in a national foreword of the national standard implementing this EN.

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Introduction

This European Standard specifies a method for safe handling and disposal of refillable steel or aluminium LPG cylinders, of water capacity 0,5 litres up to and including 150 litres, that have been received into filling/maintenance/requalification plants from customers, waste collection depots, etc.

This European Standard calls for the use of substances and procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

It has been assumed in the drafting of this European Standard that execution of its provisions is entrusted to appropriately qualified and experienced people.

1 Scope

This European Standard specifies a method for gas freeing and disposal of refillable steel or aluminium LPG cylinders, of water capacity 0,5 litres up to and including 150 litres.

2 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply:

2.1
gas free
with an LPG concentration in air less than 20% of the lower flammable limit

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2.2
disposal
gas freeing and discarding of LPG cylinders in the form of scrap metal

2.3
cylinder disposer
organisation responsible for disposal of an LPG cylinder

2.4
purging
replacing LPG with a non-flammable gas or displacing with steam or water

2.5
evacuation
removal of LPG by suction

3 Gas freeing of cylinders

3.1 Cylinder disposers shall have a safe means of removal and disposal of LPG from cylinders, for example:

- returning to an in-service LPG storage tank,
- flaring, or
- venting through a high level vent.

3.2 Equipment used for removal of LPG shall be able to remove all liquid from full cylinders.

3.3 Cylinders shall be made gas free by a safe means, for example:

- purging;
- evacuation.

3.4 Cylinders shall be depressurised prior to disposal.

4 Disposal of cylinders

4.1 Disposal shall only take place after a cylinder is made gas free.

4.2 Cylinders shall be made unserviceable for storing LPG by any of the following methods:

- mechanical crushing;
- piercing, in at least two places, to at least 50 mm diameter;
- irregular cutting of the neck of the cylinder;
- irregular cutting of the body of the cylinder, into two or more pieces.

4.3 Cylinders conforming to 4.2 shall be considered as scrap metal for disposal.

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