

## საქართველოს სტანდარტი

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სასოფლო-სამეურნეო და სატყეო აპარატები - სპრეინერების  
გარემოსდაცვითი მოთხოვნები - ნაწილი 1: ზოგადი (ისო 16119-1:2013)

საქართველოს სტანდარტებისა და მეტროლოგიის  
ეროვნული სააგენტო  
თბილისი

საინფორმაციო მონაცემები

1 შემუშავებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ

2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს 2019 წლის 6 დეკემბრის № 98 განკარგულებით

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**EUROPÄISCHE NORM**

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English Version

**Agricultural and forestry machinery - Environmental  
requirements for sprayers - Part 1: General (ISO 16119-1:2013)**

Matériel agricole et forestier - Exigences  
environnementales pour les pulvérisateurs - Partie 1:  
Généralités (ISO 16119-1:2013)

Land- und Forstmaschinen - Pflanzenschutzgeräte zum  
Ausbringen von Pflanzenschutzmitteln und flüssigen  
Düngemitteln - Umweltschutz - Teil 1: Allgemeines (ISO  
16119-1:2013)

This European Standard was approved by CEN on 5 January 2013.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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საინფორმაციო ნაშროვი. სრული ტექსტი გვხვდეთ სანახავის გვერდზე.

## Foreword

This document (EN ISO 16119-1:2013) has been prepared by Technical Committee CEN/TC 144 "Tractors and machinery for agriculture and forestry", the secretariat of which is held by AFNOR, in collaboration with Technical Committee ISO/TC 23 "Tractors and machinery for agriculture and forestry".

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 September 2013, and conflicting national standards shall be withdrawn at the latest by September 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12761-1:2001.

The following major changes were introduced:

- extension of the scope;
  - updating of the normative references;
  - revision of the definitions;
  - addition of requirements on losses, indication of pesticide in use, filling, cleaning and servicing;
  - modification and addition of new instructions;
- addition of Annexes A and ZA.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**Annex ZA**  
(informative)

**Relationship between this European Standard and the Essential Requirements of EC Directive 2009/127/EC amending 2006/42/EC**

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 2009/127/EC amending 2006/42/EC.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the normative clauses of this standard confers, within the limits of the scope of this standard, a presumption of conformity with the relevant Essential Requirements of that Directive and associated EFTA regulations.

**WARNING —** Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

**NOTE** Unless used with a specific part of ISO 16119, this part of ISO 16119 does not give presumption of conformity.

INTERNATIONAL  
STANDARD

ISO  
16119-1

First edition  
2013-03-01

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## Agricultural and forestry machinery — Environmental requirements for sprayers —

### Part 1: General

*Matériel agricole et forestier — Exigences environnementales pour les pulvérisateurs —*

*Partie 1: Généralités*



Reference number  
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## 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 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 16119-1 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 144, *Tractors and machinery for agriculture and forestry*, in collaboration with ISO Technical Committee TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 6, *Equipment for crop protection*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 16119 consists of the following parts, under the general title *Agricultural and forestry machinery — Environmental requirements for sprayers*:

- *Part 1: General*
- *Part 2: Horizontal boom sprayers*
- *Part 3: Sprayers for bush and tree crops*
- *Part 4: Fixed and semi-mobile sprayers*

Other parts are planned (see [Annex A](#)).

## Introduction

It is important that biological, ecological and economic considerations are taken into account when carrying out plant protection by spraying. For this, a comprehensive knowledge of liquids for spraying — including the limitations of their use — and suitable sprayers are necessary.

ISO 16119 gives the minimum requirements for sprayers, with particular emphasis on minimizing environmental damage, focusing on

- the deposition of liquid on the target and distribution,
- a minimization of the unintentional spreading of plant protection products into the surrounding environment, and
- an improvement in the use and operation of plant protection equipment.