

norm**NEN-EN 50348**

Stationary automatic electrostatic spraying equipment for non-flammable liquid spraying material - Safety requirements

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Voorbeeld
Preview

English version

**Stationary automatic electrostatic spraying equipment
for non-flammable liquid spraying material - Safety requirements**

Matériel fixe de pulvérisation
électrostatique pour matériau de
pulvérisation liquide ininflammable -
Règles de sécurité

Ortsfeste automatische elektrostatische
Sprüheinrichtungen für nichtbrennbare
flüssige Beschichtungsstoffe –
Sicherheitsanforderungen

This draft European Standard is submitted to CENELEC members for Unique Acceptance Procedure.
Deadline for CENELEC: 2006-09-22

It has been drawn up by CLC/TC 204.

If this draft becomes a European Standard, CENELEC 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.

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

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This draft European Standard was prepared by the Technical Committee CENELEC TC 204, Safety of electrostatic painting and finishing equipment. It is submitted to the Unique Acceptance Procedure.

This European Standard will supersede EN 50348:2001.

The following dates are proposed:

- latest date by which the existence of the EN has to be announced at national level (doa) dor + 6 months
- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

This draft European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 98/37/EC. See Annex ZZ.

Contents

	Page
Introduction.....	4
1 Scope.....	4
2 Normative references.....	5
3 Definitions.....	6
4 General requirements.....	8
5 Construction requirements.....	8
6 Marking.....	11
7 Instruction manual, cleaning and maintenance.....	12
Annex A (normative) Literature.....	14
Annex ZZ (informative) Coverage of Essential Requirements of EC Directives.....	15
Bibliography.....	16

Introduction

Process

In the process of electrostatic spraying of non-flammable liquid coating material, liquid is converted into a mist of droplets which are directed onto a surface in order to obtain a uniform layer of the thickness and type required. The droplets are charged by means of a high voltage of the order of some tens of kilovolts so that they are attracted to and deposited on the earthed workpiece.

1 Scope

1.1 This European Standard specifies safety requirements for stationary automatic electrostatic spraying equipment which is used for spraying non-flammable liquids which do not form explosive atmospheres in the spraying area. This applies also for paints that are classed as non-ignitable while spraying, e.g. water based paints (see Annex A).

In this connection a distinction is made between spraying devices which due to their type of construction comply with requirements of EN 50059 for personnel protection, and those for which other discharge energies and/or current limits are stipulated.

It also gives information on the safe operational conditions of the electrical equipment including ventilation requirements.

Additional requirements as to the construction of the spraying areas such as cabins and booths and to noise matters etc. are dealt with in EN 12215.

If flammable liquid spraying and/or cleaning materials are also used in the equipment, the requirements laid down in EN 50176 for automatic electrostatic spraying equipment for flammable liquid spraying material apply that means that the spraying areas have to be equipped accordingly.

1.2 This European Standard considers the following two types of electrostatic spraying systems:

Type B Systems with a discharge energy limit in excess of 0,24 mJ but less than 350 mJ and a current limit of less than 0,7 mA (see 5.1.1)

In these systems there is no danger of electric shock.

Type C Systems with a discharge energy in excess of 350 mJ and/or a current in excess of 0,7 mA (see 5.1.2)

In these systems there are dangers of electric shock.

1.3 This European Standard deals with the hazards specific to the stationary automatic electrostatic spraying equipment when used as intended and under conditions foreseen by the manufacturer (see Clause 4).

1.4 This European Standard does not deal with the hazards from contact with the skin or inhalation of toxic substances.

1.5 This European Standard does not deal with hand-held electrostatic spraying equipment which is dealt with in EN 50050 and EN 50059.

1.6 This European Standard does not deal with matters of noise created by the equipment. For this item the requirements are laid down in EN ISO 11688-1.

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