

**Footware manufacturing wastes - Waste classification
and management**

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NATIONAL FOREWORD

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ICS 13.030.01, 61.060

Ingliskeelsed võtmesõnad: classification, environmental audit, environmental protection, manufacturing, shoes, waste recycling, waste treatment, wastes,

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ICS 13.030.01; 61.060

English version

Footwear manufacturing wastes - Waste classification and management

Déchets de fabrication de chaussures - Classification et gestion des déchets

Abfälle bei der Schuhproduktion - Abfallklassifizierung und -management

This European Prestandard (ENV) was approved by CEN on 29 May 1999 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This European Prestandard has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR.

It has been approved by CEN members at the 11th meeting of CEN/TC 309 (Madrid, 1999-04-29).

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

Introduction

Waste disposal is increasingly regulated within the European Union. At the same time, waste management costs are increasing. With regards to waste management, the footwear industry needs

- guidelines in order to better anticipate future regulations and deal with them effectively,
- a tool in order to estimate the effectiveness of the waste management.

This standard incorporates such a tool, designed specifically for the footwear industry.

In order to improve the waste management, the footwear manufacturer should perform the following tasks:

- reduce the quantity of waste,
- reuse the waste,
- recycle the waste,
- incinerate and recover energy from the waste,
- treat the waste.

1 Scope

This experimental standard specifies the process steps which are involved in the generation of the waste from footwear manufacture and the usual waste management practices. It also establishes a European list of the usual wastes generated during the footwear manufacturing process.

It can be applied to one specific product, a specific group of products, one specific production technology within the factory or to the whole production of a company.

NOTE The nature of such wastes produced will depend on manufacturing processes, the type of shoe and the materials used.

The tool used to evaluate the effectiveness of the waste management is:

- established directly from the production process or waste generated,
- calculated for a specific product, a specific group of products or a specific production technology which shall be defined or the whole production of the company.

2 Normative references

None

3 Definitions

For the purposes of this standard, the following definitions apply:

NOTE Attention is drawn to the fact that the terms *waste* and *waste management* are defined in EU Directive 75/442/EEC modified by the EU Directive 91/156/EEC. The term *packaging waste* is defined in EU Directive 94/62/EEC. The term *landfill* is defined in the Directive Proposal 98/C126/09. (See Annex A).

3.1

process waste

waste directly linked with the footwear manufacturing process

3.2

maintenance waste

waste generated in the factories from maintenance processes

3.3

waste management practice

a technology, a specific treatment or a way of management applied to the waste (for example reducing, recycling, incineration ...)

NOTE These practices are listed in table 3.

3.4

test period

a consecutive period of production about which all the required data are collected

3.5

waste quantity

for one type of waste, quantity of waste generated during a given test period when manufacturing a specified final product or group of final products

3.6

controlled landfill

landfill which emissions to the environment are controlled

3.7

special destruction treatment

destruction treatment which is not incineration, recycling nor landfilling

4 Requirements

4.1 Process steps

The footwear manufacturing process steps to take into account to quantify the wastes are given in table 1.