



National Standards Authority of Ireland

STANDARD

I.S. CEN/TR 13768:2004

ICS 13.030.20
13.030.40

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Fax: (01) 807 3838

**CHARACTERISATION OF SLUDGES - GOOD
PRACTICE FOR COMBINED INCINERATION
OF SLUDGES AND HOUSEHOLD WASTES**

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
November 12, 2004*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2004

Price Code H

Údarás um Chaighdeán Náisiúnta na hÉireann

TECHNICAL REPORT
RAPPORT TECHNIQUE
TECHNISCHER BERICHT

CEN/TR 13768

August 2004

ICS 13.030.20; 13.030.40

Supersedes CR 13768:2001

English version

**Characterisation of sludges - Good practice for combined
incineration of sludges and household wastes**

Caractérisation des boues - Bonne pratique pour
incinération combinée des boues et des déchets ménagers

Charakterisierung von Schlämmen - Anleitung für die gute
fachliche Praxis bei der gemeinsamen Verbrennung von
Schlämmen und Haushaltsabfällen

This Technical Report was approved by CEN on 26 February 2004. It has been drawn up by the Technical Committee CEN/TC 308.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Requirements	7
4.1 General.....	7
4.2 Origin and knowledge of the materials intended for combined incineration	7
4.2.1 General aspects	7
4.2.2 Parameters relating to transport, storage and transfer	8
4.2.3 Parameters relating to combustion conditions and to gaseous and solid discharges	8
4.2.4 Case of sludge with additives	9
4.3 Requirements concerning transport, storage and transfer	9
4.3.1 General provisions concerning transport.....	9
4.3.2 Recommendations specific to transport.....	10
4.3.3 General provisions concerning storage.....	10
4.3.4 General provisions concerning transfer	11
4.4 Suitability of the incineration equipment	12
4.4.1 Incineration equipment	12
4.4.2 General considerations relating to the incineration	12
4.4.3 Particular recommendations for combined incineration.....	14
Annex A Various systems to input sludge into a household waste incineration plant	16
A.1 General.....	16
A.2 Sludge whose dry matter content < 35 %.....	16
A.3 Sludge whose dryness is > 65 %	16
A.4 Sludge whose dry matter content between 35 % to 65 %	17
A.5 Drying the sludge in the household waste incineration plant	17
Annex B Different furnace types	18
Bibliography	22

Foreword

This document (CEN/TR 13768:2004) has been prepared by Technical Committee CEN /TC 308, "Characterization of sludges", the secretariat of which is held by AFNOR.

This document supersedes CR 13768:2001.

Significant technical differences between this edition and CR 13768:2001 is taking account of the new Directive 2000/76/EC (incineration of waste).

The status of this document as CEN Technical Report has been chosen because the most of its content is not completely in line with practice and regulation in each member state. This document gives recommendations for a good practice concerning the combined incineration of sludges and household wastes but existing national regulations remain in force.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Report: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CEN/TR 13768:2004 (E)

Introduction

All of the recommendations of this document constitute a framework within which the combined incineration process can be proposed in addition to and/or as a substitution for field spreading, waste site disposal (landfilling), specific incineration (see TR 13767), or any other process.

Combined incineration should abide by the European Directive 2000/76/EC (Incineration of waste) and should comply with the relevant regulations and recommendations in force within each member state to reduce as far as possible negative effects on the environment such as pollution of the air, ground, surface and underground water, and on human and animal health. This concern therefore relates to: the pre-treatment of the sludge in plants, the transfer of the material to the treatment centre, the actual destruction process, the treatment of gaseous discharge into the atmosphere, the future of the different by-products stemming from combustion and the treatment of the liquid effluents possibly resulting from the process.

Anyway, priority should be given to reduction of pollutants at the origin and or to recovery of valuable substances (phosphorus, potassium...) in sludge and derived products if technically and economically feasible.

As part of a process and company quality approach, the relevant issues are therefore :

- exploiting the operating data and the statutory inspections carried out ;
- rendering the process reliable, optimising and of perpetuating it, as well as guaranteeing a permanent development ;
- maintaining a climate of confidence between the authorities, the sludge producers, the transporters, the incineration plant and waste disposal site operators and to allow the services to be provided on a contractual basis.

When necessary, a distinction can be made between existing facilities and new incineration plants.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-