



National Standards Authority of Ireland

TECHNICAL GUIDE

I.S. CEN/TR 14740:2004

ICS 71.100.80

**CHEMICAL USED FOR TREATMENT OF
WATER INTENDED FOR HUMAN
CONSUMPTION - OZONE-PRODUCTION -
GUIDELINES FOR INSTALLATIONS AND
MINIMAL FUNCTIONAL REQUIREMENTS**

National Standards
Authority of Ireland
Dublin 9
Ireland

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

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
April 27, 2004*

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

© NSAI 2004

Price Code I

Údarás um Chaighdeáin Náisiúnta na hÉireann

TECHNICAL REPORT
RAPPORT TECHNIQUE
TECHNISCHER BERICHT

CEN/TR 14740

February 2004

ICS 71.100.80

English version

**Chemical used for treatment of water intended for human
consumption - Ozone-Production - Guidelines for installations
and minimal functional requirements**

Produits chimiques utilisés pour le traitement de l'eau
destinée à la consommation humaine - Production d'ozone
- Guide pour l'installation et les exigences minimales de
fonctionnement

Produkte zur Aufbereitung von Wasser für den
menschlichen Gebrauch - Ozon

This Technical Report was approved by CEN on 17 December 2003. It has been drawn up by the Technical Committee CEN/TC 164.

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

	page
1 Scope	5
2 Minimum requirements and operational specifications to be given by the user in the call for tenders	5
3 Criteria for ozone to water contacting	9
4 Requirements for operational safety	10
5 Parameters of expected operation costs	13
6 Analytical control and monitoring.....	14
7 Simplified field test method for preliminary evaluation of residual ozone in water	18
8 Instrumental monitoring of residual ozone concentration in treated drinking water	19
9 Monitoring of residual ozone in water by gas stripping followed by UV measurement of ozone in the gas phase.....	20
10 Potentiometric monitoring of ozone in water	20
11 Manual analytical measurement of ozone concentration in the off-gas and in working premises.....	22
12 Instrumental measurement of ozone concentration in the off-gas and in working premises	22
Bibliography	24

Foreword

This document (CEN/TR 14740:2004) has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR.

The status of this document as a Technical Report has been chosen because most of its content is a code of good practice about ozone equipment in particular for selection by the purchaser, for control of performance and for arbitration if ever problems occur.

CEN/TR 14740:2004 (E)

Introduction

Ozone can be used as a single reagent or in conjunction with other means such as oxidants like hydrogen peroxide, or UV-light and catalysts.

In practice ozone can be produced by different methods depending of the scale of operation: electrical discharge in a feed gas containing oxygen, wet electrolytic methods, or photochemical or radiochemical irradiation technologies.

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
-