National Standards Authority of Ireland

TECHNICAL GUIDE

I.S. CEN/TR 14740:2004

ICS 71.100.80

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

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:

April 27, 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.

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Ref. No. CEN/TR 14740:2004: E

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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.

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.