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CHARACTERISATION OF SLUDGES - SETTLING PROPERTIES - PART 2: DETERMINATION OF THICKENABILITY

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EUROPEAN STANDARD

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English Version

Characterisation of sludges - Settling properties - Part 2: Determination of thickenability

Caractérisation des boues - Propriétés de sédimentation - Partie 2: Détermination de l'aptitude à l'épaississement

Charakterisierung von Schlämmen - Absetzeigenschaften - Teil 2: Bestimmung der Eindickbarkeit

This European Standard was approved by CEN on 3 February 2006.

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Foreword

This document (EN 14702-2:2006) has been prepared by Technical Committee CEN/TC 308 “Characterisation of sludges”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2006, and conflicting national standards shall be withdrawn at the latest by September 2006.

Another part of this European Standard is:

— Part 1: Determination of settleability (Determination of the proportion of sludge volume and sludge volume index).

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

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Introduction

Determination of the thickenability, i.e. the further concentration of suspended (undissolved) sludge solids in settling under gravity, through the use of laboratory mechanical assisted cylinders is negatively affected by bridging, wall effects and particle size effects. Ideally, this parameter should be measured in large-diameter columns having the same depth as the prototype thickener, but above effects can be satisfactory overcome by introducing a low-speed stirrer in a cylinder; this also helps to reduce the effect of the shallow depth.

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