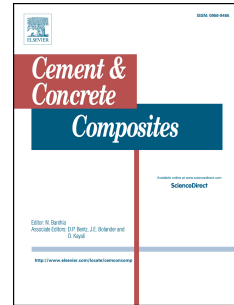


Accepted Manuscript

Friedel's salt profiles from thermogravimetric analysis and thermodynamic modelling of Portland cement-based mortars exposed to sodium chloride solution

Zhenguo Shi, Mette Rica Geiker, Barbara Lothenbach, Klaartje De Weerd, Sergio Ferreiro Garzón, Kasper Enemark-Rasmussen, Jørgen Skibsted



PII: S0958-9465(16)30379-1

DOI: [10.1016/j.cemconcomp.2017.01.002](https://doi.org/10.1016/j.cemconcomp.2017.01.002)

Reference: CECO 2761

To appear in: *Cement and Concrete Composites*

Received Date: 15 July 2016

Revised Date: 20 December 2016

Accepted Date: 4 January 2017

Please cite this article as: Z. Shi, M.R. Geiker, B. Lothenbach, K. De Weerd, S.F. Garzón, K. Enemark-Rasmussen, J. Skibsted, Friedel's salt profiles from thermogravimetric analysis and thermodynamic modelling of Portland cement-based mortars exposed to sodium chloride solution, *Cement and Concrete Composites* (2017), doi: 10.1016/j.cemconcomp.2017.01.002.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Friedel's salt profiles from thermogravimetric analysis and thermodynamic modelling of Portland cement-based mortars exposed to sodium chloride solution

Zhenguo Shi^a, Mette Rica Geiker^b, Barbara Lothenbach^c, Klaartje De Weerd^b, Sergio Ferreira Garzón^d, Kasper Enemark-Rasmussen^{a,e}, Jørgen Skibsted^{a*}

^a. Department of Chemistry and Interdisciplinary Nanoscience Center (iNANO), Aarhus University, 8000 C Aarhus, Denmark

^b. Department of Structural Engineering, Norwegian University of Science and Technology (NTNU), 7491 Trondheim, Norway

^c. Laboratory for Concrete & Construction Chemistry, Swiss Federal Laboratories for Materials Science and Technology (Empa), 8600 Dübendorf, Switzerland

^d. Aalborg Portland A/S, Cementir Holding S.p.A., 9100 Aalborg, Denmark

^e. Present address: Department of Chemistry, Technical University of Denmark, 2800 Kgs. Lyngby, Denmark

* Corresponding author. Department of Chemistry and Interdisciplinary Nanoscience Center (iNANO), Aarhus University, DK-8000 Aarhus C, Denmark. Tel: +45-87155946; Fax: +45 8619 6199. E-mail address: jskib@chem.au.dk (J. Skibsted).

Download English Version:

<https://daneshyari.com/en/article/5436926>

Download Persian Version:

<https://daneshyari.com/article/5436926>

[Daneshyari.com](https://daneshyari.com)