

Accepted Manuscript

Mullite-based ceramic tiles produced solely from high-alumina fly ash: Preparation and sintering mechanism

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PII: S0925-8388(17)33228-0

DOI: [10.1016/j.jallcom.2017.09.179](https://doi.org/10.1016/j.jallcom.2017.09.179)

Reference: JALCOM 43235

To appear in: *Journal of Alloys and Compounds*

Received Date: 24 July 2017

Revised Date: 9 September 2017

Accepted Date: 16 September 2017

Please cite this article as: Y. Luo, S. Ma, S. Zheng, C. Liu, D. Han, X. Wang, Mullite-based ceramic tiles produced solely from high-alumina fly ash: Preparation and sintering mechanism, *Journal of Alloys and Compounds* (2017), doi: 10.1016/j.jallcom.2017.09.179.

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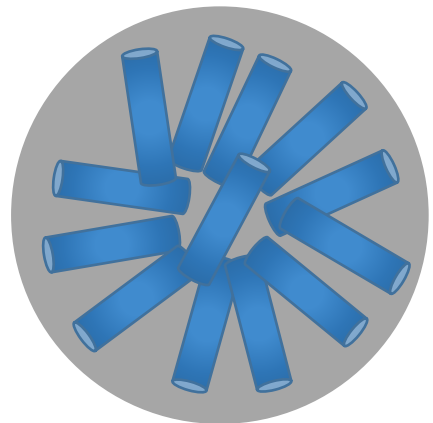
 Mullite

 Amorphous SiO₂

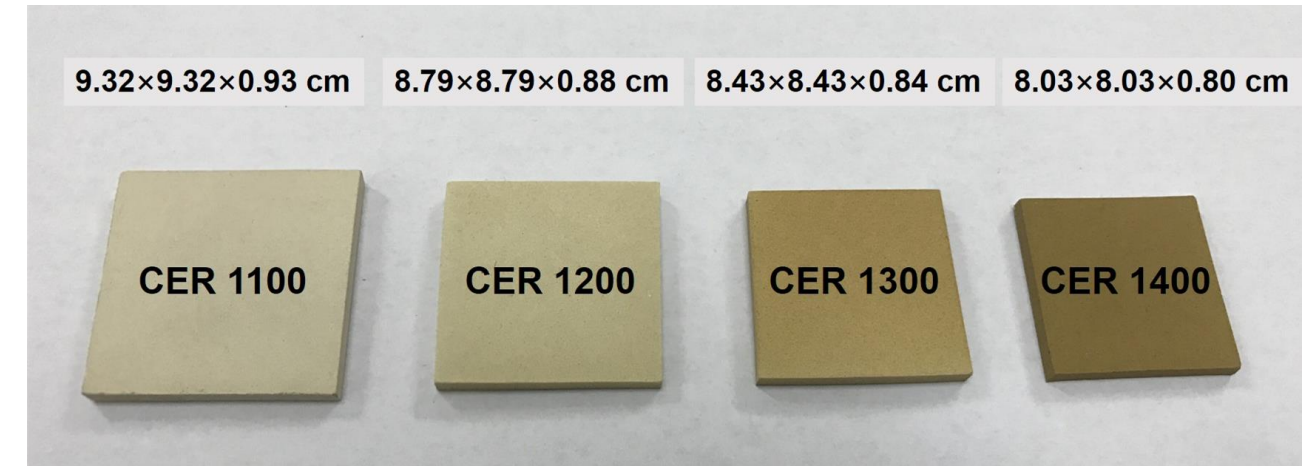
 Zeolite P1

Alkali-activation

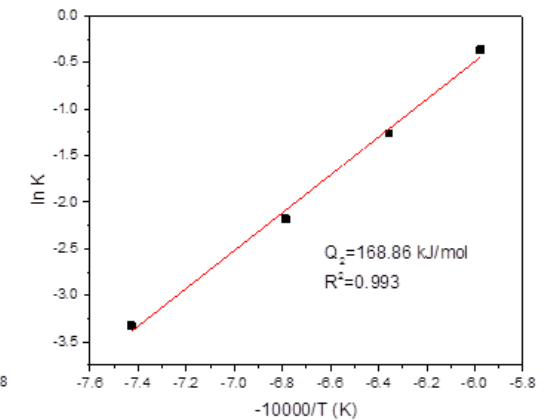
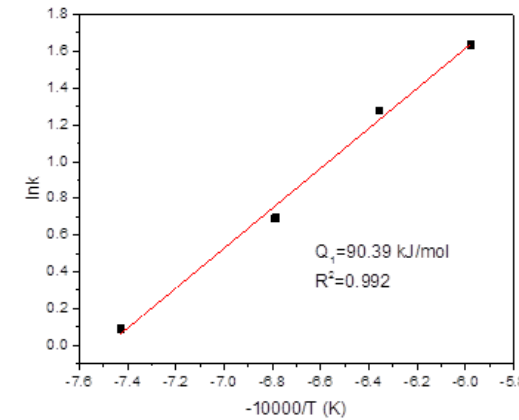
Ceramic preparation and sintering kinetics


Original
high-alumina fly ash
(Al/Si=1.29)


Alkali-activated
high-alumina fly ash
(Al/Si=2.49)



Mullite-based ceramic tiles



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