

Author's Accepted Manuscript

Effect of sintering temperature on microstructure and mechanical properties of zirconia-toughened alumina machinable dental ceramics

Jiangyuan Fan, Tingting Lin, Fangxuan Hu, Yi Yu, Muhammad Ibrahim, Ruibin Zheng, Shengbin Huang, Jianfeng Ma



www.elsevier.com/locate/ceri

PII: S0272-8842(16)32222-2
DOI: <http://dx.doi.org/10.1016/j.ceramint.2016.11.204>
Reference: CER114292

To appear in: *Ceramics International*

Received date: 21 October 2016
Revised date: 24 November 2016
Accepted date: 30 November 2016

Cite this article as: Jiangyuan Fan, Tingting Lin, Fangxuan Hu, Yi Yu, Muhammad Ibrahim, Ruibin Zheng, Shengbin Huang and Jianfeng Ma, Effect of sintering temperature on microstructure and mechanical properties of zirconia toughened alumina machinable dental ceramics, *Ceramics International*, <http://dx.doi.org/10.1016/j.ceramint.2016.11.204>

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 a review of the resulting galley proof before it is published in its final citable 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

Effect of sintering temperature on microstructure and mechanical properties of zirconia-toughened alumina machinable dental ceramics

Jiangyuan Fan ^{a, 1}, Tingting Lin ^{a, b, 1}, Fangxuan Hu ^a, Yi Yu ^a, Muhammad Ibrahim ^a,
Ruibin Zheng ^{a, b}, Shengbin Huang ^{a, b, *}, Jianfeng Ma ^{a, b, *}

^a *Institute of Stomatology, School and Hospital of Stomatology, Wenzhou Medical University, Wenzhou 325027, RP China*

^b *Department of Prosthodontics, School and Hospital of Stomatology, Wenzhou Medical University, Wenzhou 325027, RP China*

¹ These authors contributed equally to this work

* Corresponding authors:

E-mail address: dentistmacn@aliyun.com (J.F. Ma); huangsb003@wmu.edu.cn (S.B. Huang).

Tel.: +86 0577 88066088, fax: +86 0577 88066062 (J.F. Ma). Tel. /Fax: +86 577 88066010 (S.B. Huang).

School and Hospital of Stomatology, Wenzhou Medical University, No. 373, Xueyuan West Road,

Lucheng District, Wenzhou 325027, RP China.

ABSTRACT

This study investigated the effect of sintering temperature on the microstructure and mechanical properties of dental zirconia-toughened alumina (ZTA) machinable ceramics. Six groups of gelcast ZTA ceramic samples sintered at temperatures between

Download English Version:

<https://daneshyari.com/en/article/5438913>

Download Persian Version:

<https://daneshyari.com/article/5438913>

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