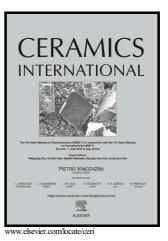
## Author's Accepted Manuscript

Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB<sub>2</sub> fabricated by selective laser melting and hot pressing

L.X. Xi, H. Zhang, P. Wang, H.C. Li, K.G. Prashanth, K.J. Lin, I. Kaban, D.D. Gu



 PII:
 S0272-8842(18)31672-9

 DOI:
 https://doi.org/10.1016/j.ceramint.2018.06.225

 Reference:
 CERI18669

To appear in: Ceramics International

Received date: 3 June 2018 Revised date: 18 June 2018 Accepted date: 27 June 2018

Cite this article as: L.X. Xi, H. Zhang, P. Wang, H.C. Li, K.G. Prashanth, K.J. Lin, I. Kaban and D.D. Gu, Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB<sub>2</sub> fabricated by selective laser melting and hot pressing, *Ceramics International*, https://doi.org/10.1016/j.ceramint.2018.06.225

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 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.

## ACCEPTED MANUSCRIPT

## Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB<sub>2</sub> fabricated by selective laser melting and hot pressing

L.X. Xi<sup>1,2</sup>, H. Zhang<sup>1,2</sup>, P. Wang<sup>3</sup>, H.C. Li<sup>4</sup>, K.G. Prashanth<sup>5,6,7</sup>, K.J. Lin<sup>1,2</sup>, I. Kaban<sup>3</sup>, D.D. Gu<sup>1,2,\*</sup>

<sup>1</sup>College of Material Science and Technology, Nanjing University of Aeronautics and

Astronautics, Yudao Street 29, 210016 Nanjing, China

<sup>2</sup>Jiangsu Provincial Engineering Laboratory for Laser Additive Manufacturing of High-Performance Metallic Components, Nanjing University of Aeronautics and Astronautics, Yudao Street 29, 210016 Nanjing, China

<sup>3</sup>IFW Dresden, Institute for Complex Materials, Helmholtzstraße 20, 01069 Dresden, Germany

<sup>4</sup>School of Materials Science and Engineering, Harbin Institute of Technology, 150001 Harbin, China

<sup>5</sup>Department of Manufacturing and Civil Engineering, Norwegian University of Science and Technology (NTNU), Teknologivegen 22, 2815 Gjovik, Norway

<sup>6</sup>Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Jahnstraße 12, 8700 Leoben, Austria

<sup>7</sup>Department of Mechanical and Industrial Engineering, Tallinn University of Technology, Ehitajate Tee 5, 19086 Tallinn, Estonia

\*Corresponding author. Tel./fax: +86 25 52112626

Download English Version:

## https://daneshyari.com/en/article/8948432

Download Persian Version:

https://daneshyari.com/article/8948432

Daneshyari.com