

Accepted Manuscript

STEM analysis of WC-Co coatings modified by nano-sized TiC and nano-sized WC addition

H. Myalska, R. Swadźba, R. Rozmus, G. Moskal, J. Wiedermann, K. Szymański



PII: S0257-8972(17)30083-X
DOI: doi: [10.1016/j.surfcoat.2017.01.072](https://doi.org/10.1016/j.surfcoat.2017.01.072)
Reference: SCT 22048
To appear in: *Surface & Coatings Technology*
Received date: 28 July 2016
Revised date: 17 January 2017
Accepted date: 19 January 2017

Please cite this article as: H. Myalska, R. Swadźba, R. Rozmus, G. Moskal, J. Wiedermann, K. Szymański, STEM analysis of WC-Co coatings modified by nano-sized TiC and nano-sized WC addition. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Sct(2017), doi: [10.1016/j.surfcoat.2017.01.072](https://doi.org/10.1016/j.surfcoat.2017.01.072)

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.

STEM analysis of WC-Co coatings modified by nano-sized TiC and nano-sized WC addition

*H. Myalska^{*1}, R. Swadźba^{**2}, R. Rozmus^{**3}, G. Moskal^{*4}, J. Wiedermann^{**5}, K. Szymański^{**6}*

** Silesian University of Technology, Institute of Materials Science, 40-019 Katowice, Krasińskiego 8 Street, Poland*

*** Institute for Ferrous Metallurgy, 44-100 Gliwice, Miarki 12-14 Street, Poland*

1 hanna.myalska@gmail.com

2 rswadzba@imz.pl

3 rrozmus@imz.pl

4 grzegorz.moskal@polsl.pl

5 jwiedermann@imz.pl

6 krzysztof.szymanski@polsl.pl

ABSTRACT

Thermally sprayed hardmetal WC-Co-based coatings are widely applied in order to provide good wear resistance to mechanical components working in demanding environment. The WC-Co coatings are obtained by various spraying methods such as High Velocity Oxygen Fuel (HVOF) or High Velocity Air Fuel (HVOF) techniques. Additional improvement of coatings properties can be achieved by adding very fine carbides to the WC-Co powder

Download English Version:

<https://daneshyari.com/en/article/5465465>

Download Persian Version:

<https://daneshyari.com/article/5465465>

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