

Micro-scale abrasion behaviour of electroless Ni-P-SiC coating on aluminium alloy

Franco, M., Sha, W., & Malinov, S. (2014). Micro-scale abrasion behaviour of electroless Ni-P-SiC coating on aluminium alloy. Abstract from ICMCTF'14 - International Conference On Metallurgical Coatings & Thin Films, San Diego, United States.

Queen's University Belfast - Research Portal:

[Link to publication record in Queen's University Belfast Research Portal](#)

Publisher rights

© 2014 The Authors

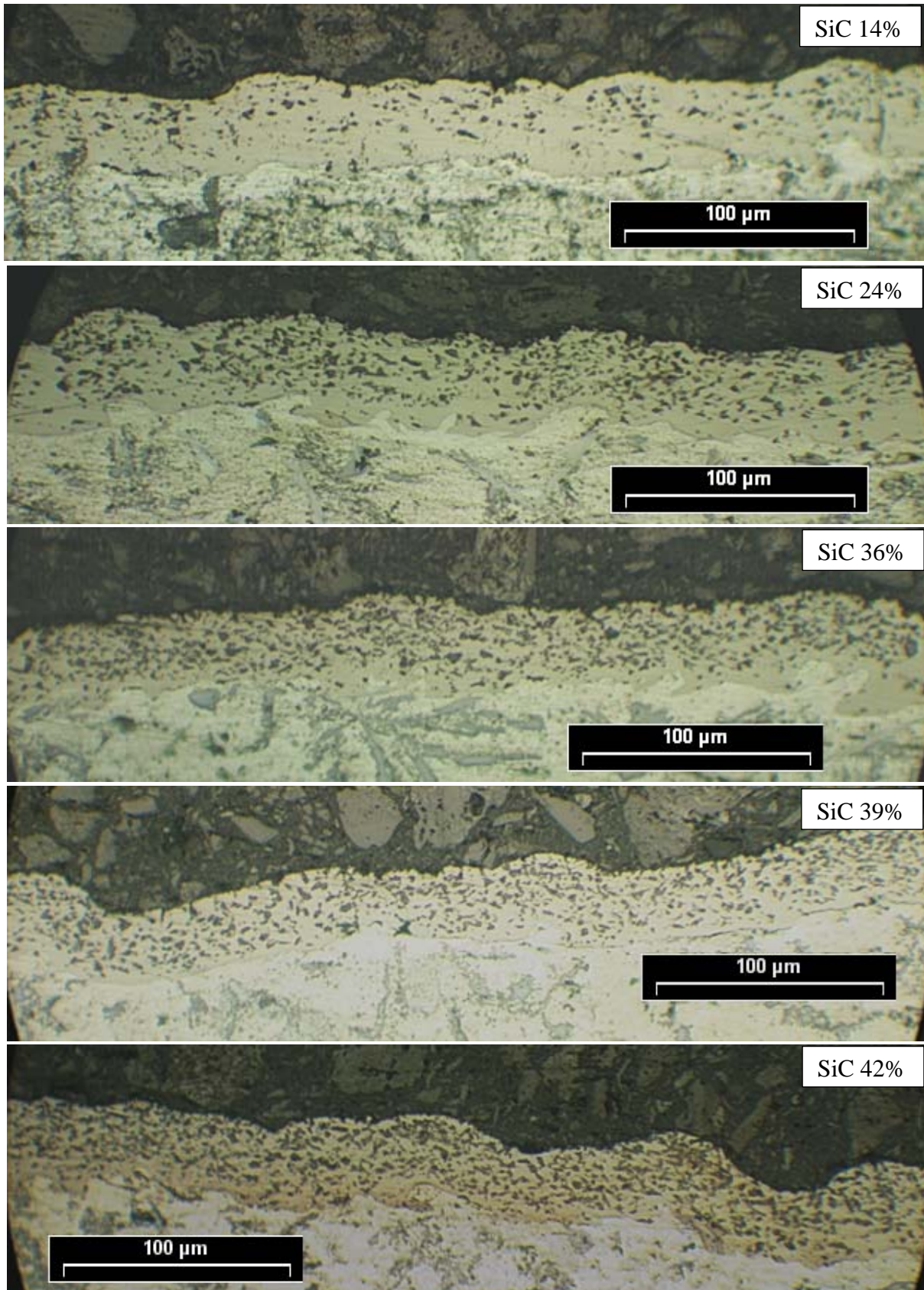
General rights

Copyright for the publications made accessible via the Queen's University Belfast Research Portal is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

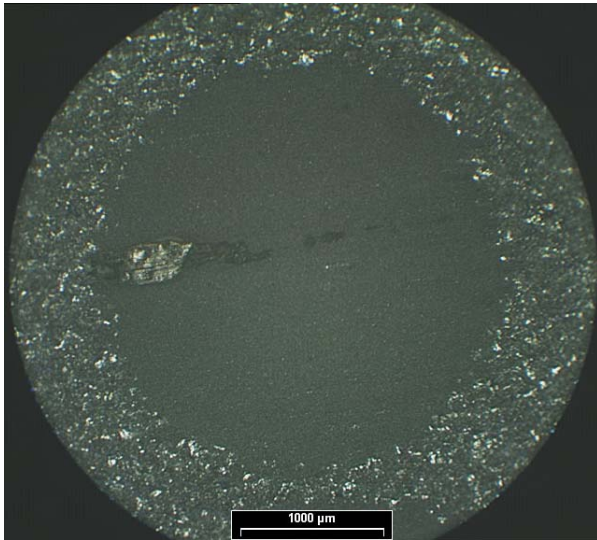
Take down policy

The Research Portal is Queen's institutional repository that provides access to Queen's research output. Every effort has been made to ensure that content in the Research Portal does not infringe any person's rights, or applicable UK laws. If you discover content in the Research Portal that you believe breaches copyright or violates any law, please contact openaccess@qub.ac.uk.

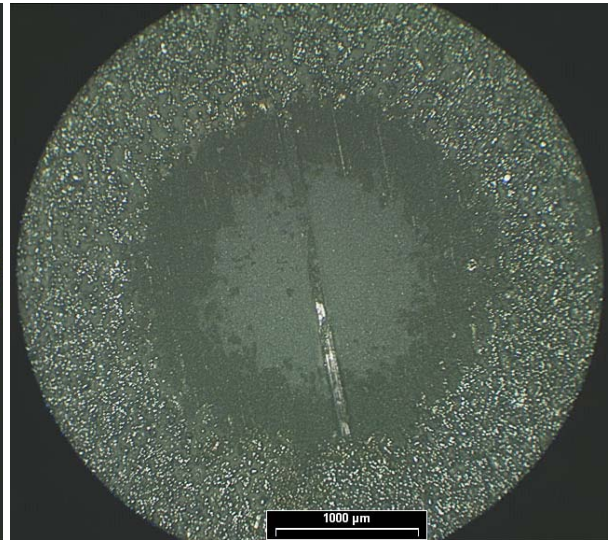
Optical micrographs of cross sections of electroless nickel composite coating of various SiC contents.



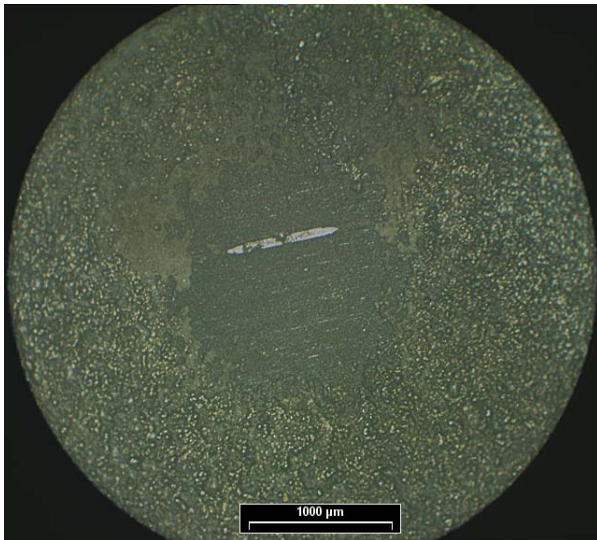
Micro-abrasion scars (approx. 76 rpm with 25.4 mm steel ball and load of 0.5 N, 1200 revolutions).



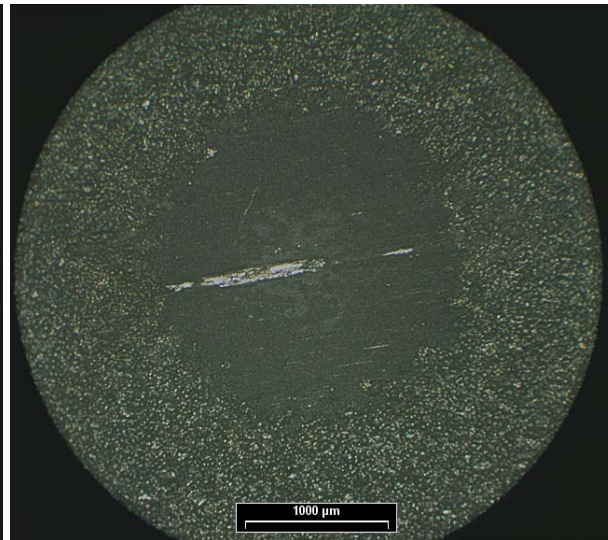
Bare aluminium alloy LM24



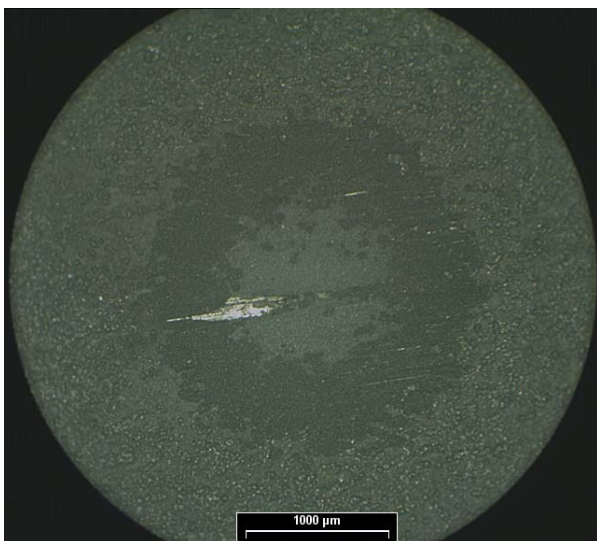
Ni-P



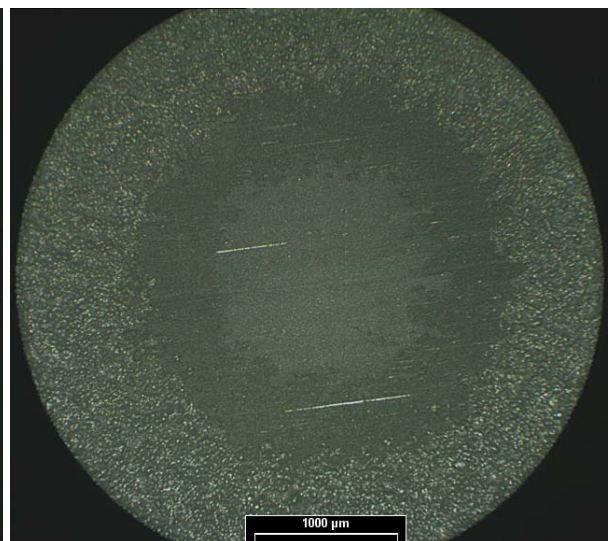
Ni-P-14%SiC



Ni-P-24%SiC



Ni-P-36%SiC



Ni-P-42%SiC