

Abradable / Abrasive Tip Coatings Alert

**December 27, 2022**

**IP & Knowledge Management**

[Investigation of wear mechanisms in **abradable**-blade contacts](https://etheses.whiterose.ac.uk/31911/)

E Rahimov - 2022 - etheses.whiterose.ac.uk

5 days ago - … for **abradable** **coatings** and increase in compressor temperature from stage to  
stage have led to the development of **abradable** … and AlSi-polyester **abradable** used in lower …

[Surface crack detection of the **abradable seal coating** by laser bidirectional scanning thermography](https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fscholar.google.com%2Fscholar_url%3Furl%3Dhttps%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS1350449522004790%26hl%3Den%26sa%3DX%26d%3D9995590256412906589%26ei%3DFyCRY7G_KLLcsQLQt6OwDA%26scisig%3DAAGBfm0dmyoTgFyWBPNRznOZQ6SPO3fcWg%26oi%3Dscholaralrt%26html%3D%26pos%3D0%26folt%3Dkw&data=05%7C01%7Cjeff.barr%40linde.com%7Cc5ed9b7aca664fe2ced808dad8a9d9fb%7C1562f00709a44fcb936be79246571fc7%7C0%7C0%7C638060521551416644%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0Mc%2F55KO3TpnGSI5XckTZ8413OReX3VTKavjX2Gbeyc%3D&reserved=0)

E Lin, H Wang, L Dong, Z Piao, J Yang, Z Xing, D Cai - Infrared Physics & Technology, 2022

… **abradable** **seal** **coating** with non-homogeneous and multi-phase structures. Firstly,   
we investigated the thermal response characteristics of the **abradable** **seal** **coating** …   
flying spot camera did not apply to the **abradable** **seal** **coating**. Secondly, we …

[Anti-adhesion mechanism of TiB2 deposited Ti6Al4V blade tip against Al-hBN seal coating during high-speed rubbing](https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fscholar.google.com%2Fscholar_url%3Furl%3Dhttps%3A%2F%2Fwww.researchsquare.com%2Farticle%2Frs-2274819%2Flatest.pdf%26hl%3Den%26sa%3DX%26d%3D7347270747236464016%26ei%3D7Wp8Y9jWHoW7ywTIwry4Bg%26scisig%3DAAGBfm1VuqQK24gA_cm4KZbMzPCvvtuDTw%26oi%3Dscholaralrt%26hist%3DmpoAcdUAAAAJ%3A2622092723119233116%3AAAGBfm0MmgMTgt-XBNFjhDN--A1kAUlrXw%26html%3D%26pos%3D1%26folt%3Dkw&data=05%7C01%7CJeff.Barr%40linde.com%7Cefb624a7257e4c37941408dacc521c49%7C1562f00709a44fcb936be79246571fc7%7C0%7C0%7C638046950434155798%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=EyGH4Z1kO4GOP1oEnHVinDBnzo6KbMR%2Fc0qqvf%2FCZ%2B4%3D&reserved=0)

B Wu - 2022

The TiB2 coating deposited by magnetron sputtering on the Ti6Al4V simulated blade   
tip with a dense ber-like microstructure has the adhesion strength grade of HF1. High-speed   
rubbing results showed that the TiB2 coating could inhibit the adhesive transfer of …

[Microstructure and Corrosive Wear Properties of CoCrFeNiMn High-Entropy Alloy Coatings](https://www.mdpi.com/article/10.3390/ma16010055)

H Wang, J Kang, W Yue, G Jin, R Li, Y Zhou, J Liang… - Materials, 2023 - mdpi.com

6 days ago - … wear of the HVOF **coating** after vacuum heat treatment at … , **abrasive** wear,  
fatigue wear and oxidation wear. The CS **coating** is mainly **abrasive** wear, and the HVOF **coating** …

[On the Applicability of Iron-Based Coatings Against Abrasion and Cavitation Erosion Wear](https://link.springer.com/article/10.1007/s11666-022-01517-7)

[T Varis](https://scholar.google.com/citations?user=rF4bNR0AAAAJ&hl=en&oi=sra), [J Lagerbom](https://scholar.google.com/citations?user=X9IZiEMAAAAJ&hl=en&oi=sra), T Suhonen, S Terho… - Journal of Thermal …, 2022 - Springer

7 days ago - … , and the sprayed coatings were tested for **abrasive** wear and cavitation erosion.  
In … of the **coating** caused by carbide and boride precipitates in the **coating** and the positive

[**Abrasive**Wear Resistance and Tribological Characteristics of Electrometallized Composite Coatings](https://link.springer.com/article/10.1007/s11003-022-00636-4)

MM Student, SI Markovych, VМ Hvozdetskyi… - Materials Science, 2022 - Springer

14 days ago - … This is higher than for a friction couple formed by a **coating** sprayed from Sv08  
… **abrasive** wear resistance of the coatings sprayed from composite wires with fixed **abrasive** …

[Diamond **Abrasive**Electroplated Surface Anomaly Detection using Convolutional Neural Networks for Industrial Quality Inspection](https://arxiv.org/abs/2212.11122)

P Ali - arXiv preprint arXiv:2212.11122, 2022 - arxiv.org

16 days ago - … Electroplated diamond **abrasive** tools require nickel **coating** on a metal surface  
for **abrasive** bonding and part functionality. The electroplated nickel-**coated** **abrasive** tool …

[Microstructure and wear resistance of HVOF Sprayed WC-10Co-4Cr **Coating**on Ti-6Al-4V](https://www.tandfonline.com/doi/abs/10.1080/25787616.2022.2148352)

W Shu, X Deng, W Guo, W Shi, S Li… - Heat Treatment and …, 2022 - Taylor & Francis

42 days ago - … **coating** surface shows that the dominant wear mechanism of WC-10Co-4Cr  
**coating** was **abrasive** … on the **coating** is relatively small, and the wear of the **coating** is mainly …

[Preparation and Properties of a Plasma-Sprayed Fe-Cr-BC **Coating**](https://www.mdpi.com/1937664)

J Lu, J He, D Chen, C Sun, Y Li, F Luo - Coatings, 2022 - mdpi.com

47 days ago - … The matrix of the **coating** is an α-Fe phase and the hard … **coating** structure, the  
wear rate of the FeCrBC **coating** is … Cr-BC **coating** is mainly **abrasive** wear and fatigue wear.

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