

Electronic Supplementary Material

Tribological performance of novel nickel-based composite coatings with lubricant particles

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This Supplementary Material document contains the acoustic emission (AE) recorded during the scratch tests performed on different Ni-based coatings:

- Lubricated scratch tests:
 - Standard pure Ni coating (benchmark material): Figure S1.
 - Ni/hBN composite coating: Figure S2.
 - Ni/WS₂ composite coating: Figure S3.
- Lubricated scratch tests:
 - Standard pure Ni coating (benchmark material): Figure S4.
 - Ni/hBN composite coating: Figure S5.
 - Ni/WS₂ composite coating: Figure S6.

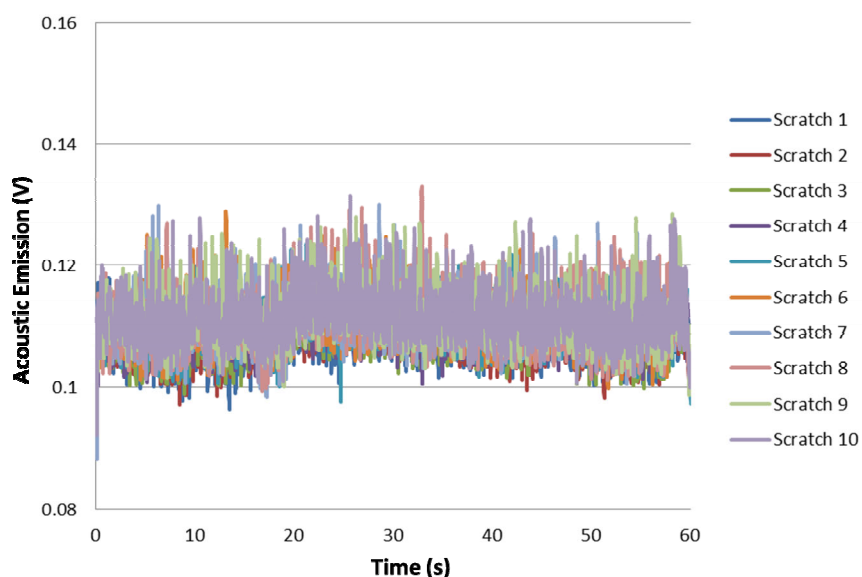


Figure S1 AE recorded during a lubricated scratch test (10 continuous scratches) performed on a standard pure Ni coating (benchmark material).

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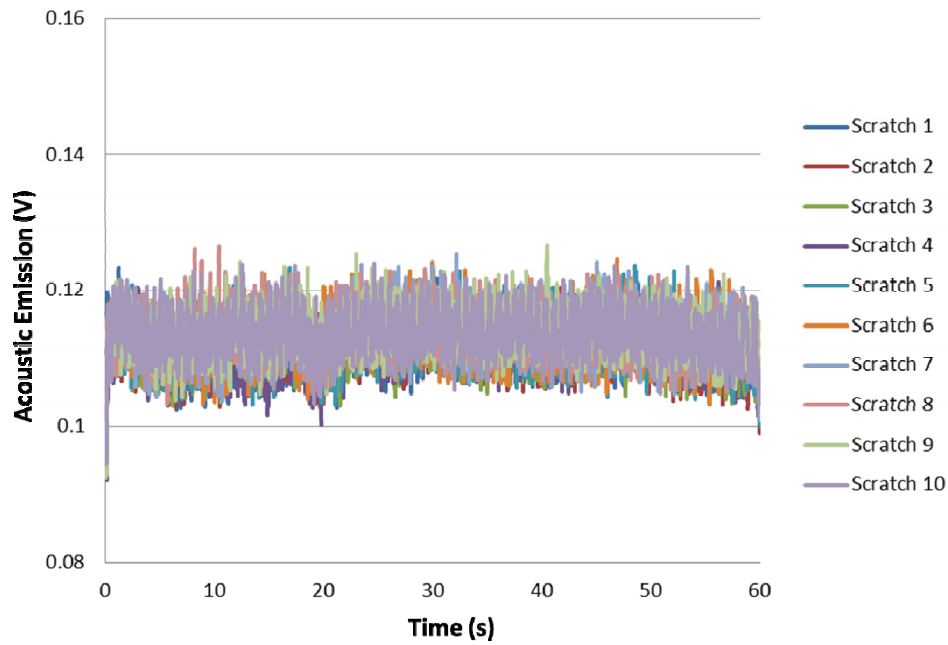


Figure S2 AE recorded during a non-lubricated scratch test (10 continuous scratches) performed on a Ni/hBN coating..

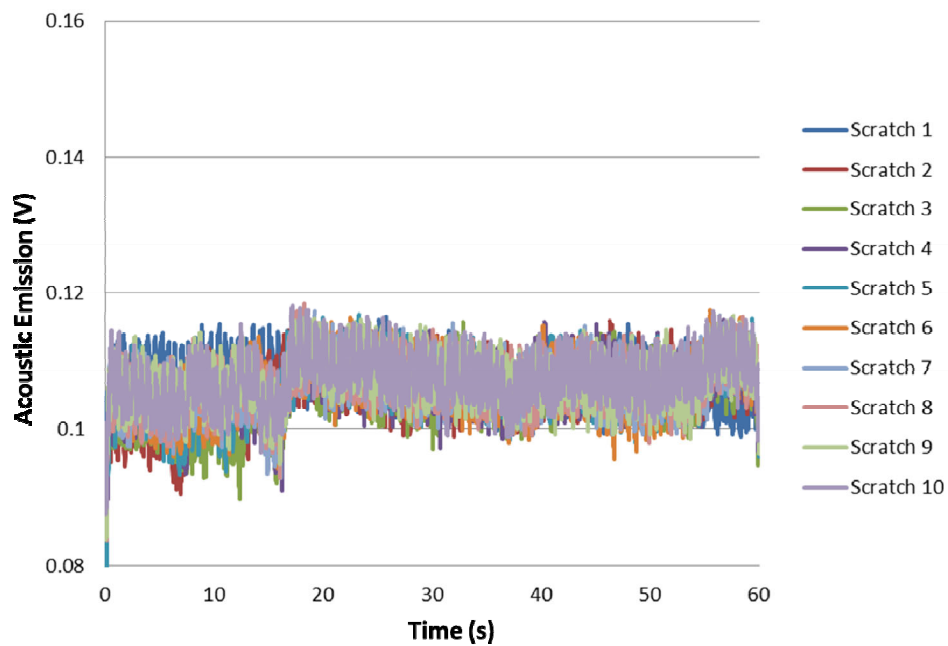


Figure S3 AE recorded during a lubricated scratch test (10 continuous scratches) performed on a Ni/WS₂ coating..

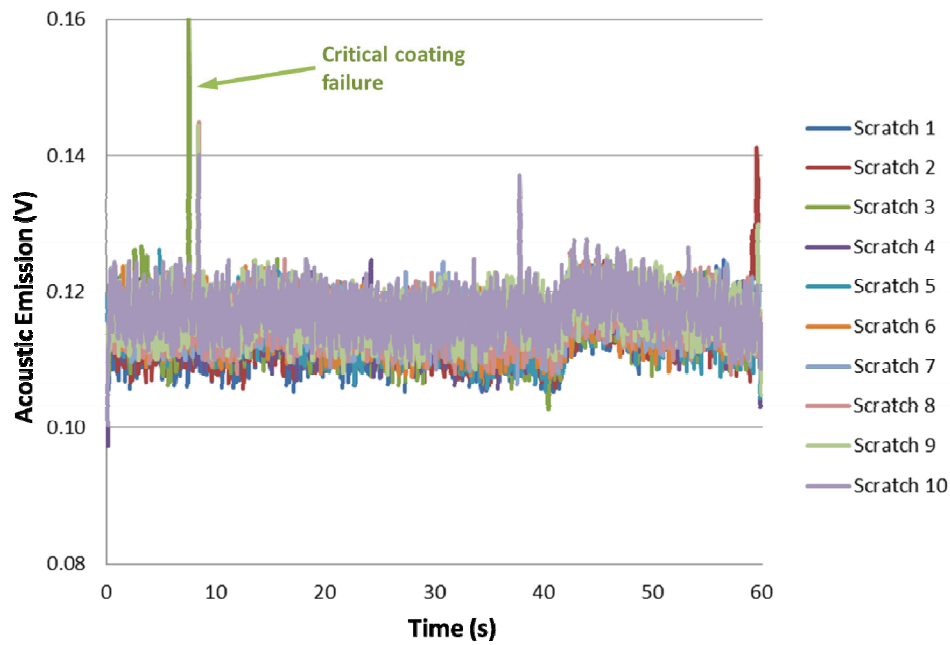


Figure S4 AE recorded during a non-lubricated scratch test (10 continuous scratches) performed on a standard pure Ni coating (benchmark material).

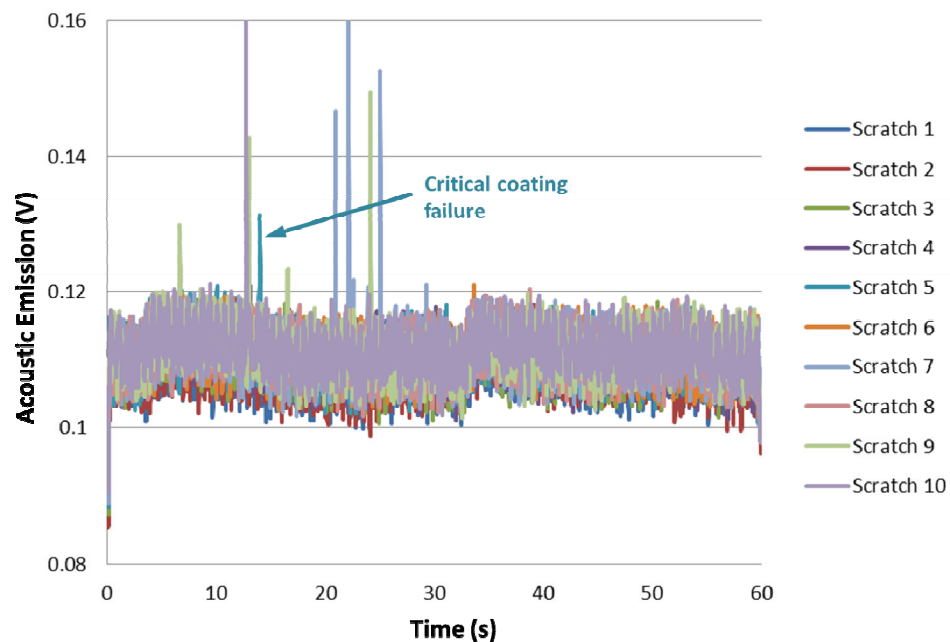


Figure S5 AE recorded during a non-lubricated scratch test (10 continuous scratches) performed on a Ni/hBN coating.

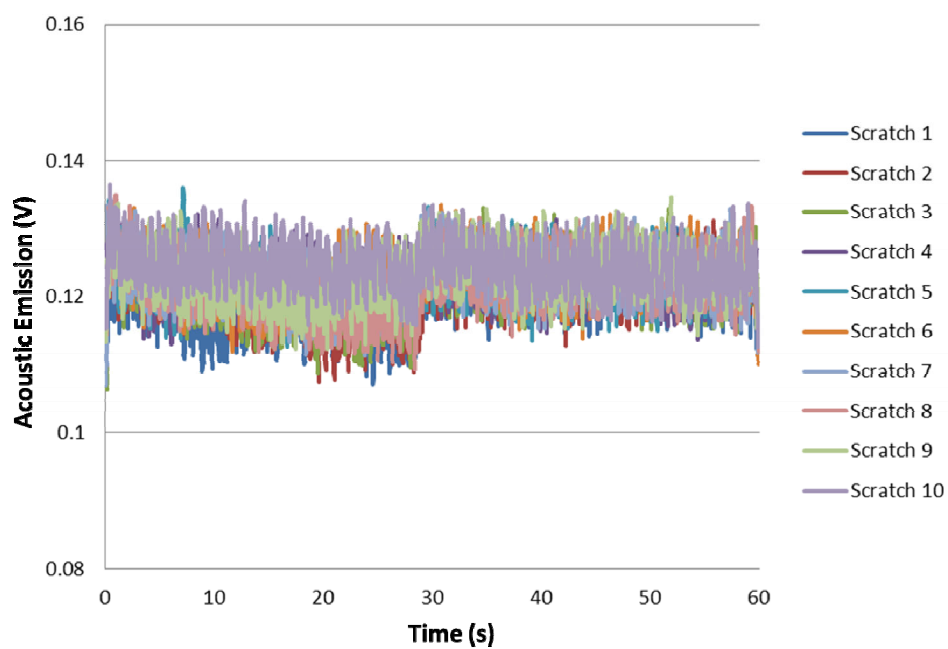


Figure S6 AE recorded during a non-lubricated scratch test (10 continuous scratches) performed on a Ni/WS₂ coating.