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# Tribological characteristics of boron nitride nanosheets on silicon wafers obtained by the reaction of $MgB_2$ and $NH_3$

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**Abstract**

Boron nitride nanosheets (BNNSs) are a structural analogue of graphene that are thought to exhibit good tribological performances, due to their typical laminated structure. However, the tribological properties of pure solid BNNSs have not been thoroughly researched, which may be resulted from the lack of knowledge regarding the synthesis of this special two-dimensional (2D) material. In this work, BNNSs