

V. M. Volkogon, V. S. Antonyuk. Contribution of graphite-like boron nitride to the formation of residual stresses, strength, and performance of materials

Based on wurtzitic boron nitride. - Journal of Superhard Materials Vol. 23, No. 5, pp. 50-53, 2001

The paper deals with the mechanism of the formation of physico-mechanical properties of polycrystalline superhard materials based on wurtzitic boron nitride -Hexanite-A. We have studied the influence of graphite-like BN modification, which is present in Hexanite-A, on the residual stress level upon sintering, and analyzed the relationship between these stresses and the strength and performance of the polycrystalline superhard materials. The results of investigation of wBN-based material confirm the presence of residual stresses due to graphite-like boron nitride.

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