

Title (en)
NANOSCALE CUBIC BORON NITRIDE

Title (de)
KUBISCHES NANO-BORNITRID

Title (fr)
NANONITRURE DE BORE CUBIQUE

Publication
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Application
EP 09784260 A 20090709

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Abstract (en)
[origin: WO2010004142A2] The invention relates to a method of manufacturing nanoscale cubic boron nitride and to the nanoscale cubic boron nitride thus obtained. The method according to the invention of manufacturing nanoscale boron nitride of cubic structure is characterized in that it comprises the following steps: a) compression of a pyrolytic boron nitride powder having a structure of the monomodal turbostratic graphite type at a pressure of between 19 and 21 GPa and at room temperature; and b) heating of the powder under a pressure of between 19 and 21 GPa and at a temperature of between 1447°C (1720 K) and 1547°C (1820 K) for less than 2 minutes. The invention is applicable in particular in the field of abrasives.

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