

Graphene Supermarket 铜基六角氮 化硼多层薄膜

中文名称： Graphene Supermarket 铜基六角氮化硼多层薄膜

英文名称： Multilayer h-BN (Boron Nitride) film grown in copper foil

货 号： ML1174

CAS 号： 7440-42-8

包 装： 1 盒

参 数

面 积： 5cmx2.5cm

保质期： 1 年常温干燥避光

酶联生物为您提供高质量的铜基多层六角氮化硼薄膜，六角氮化硼结构是类石墨烯结构，具有很高的研究价值，也可以用转移石墨烯的方法转移六角氮化硼材料。表征完备，质量可靠。

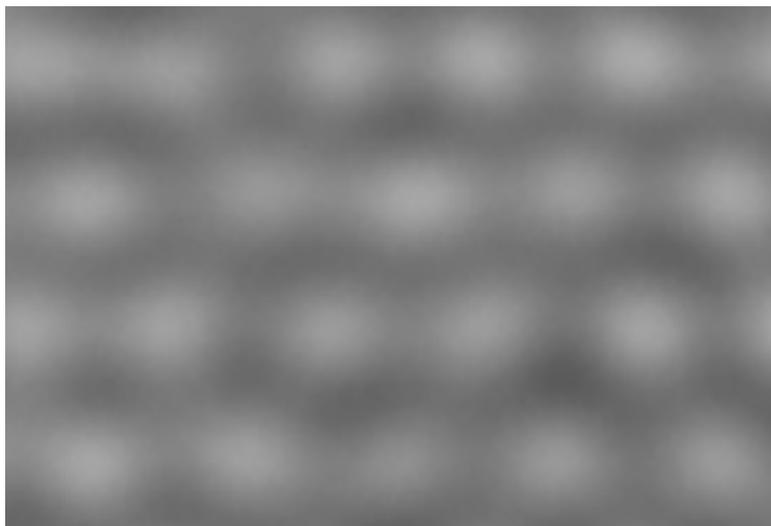
h-BN is an insulator with a direct band gap of 5.97 eV. Due to its strong covalent sp² bonds in the plane, the in-plane mechanical strength and thermal conductivity of h-BN has been reported to be close to that of graphene. h-BN has an even higher chemical stability than graphene; it can be stable in air up to 1000 ° C (in contrast, for graphene the corresponding temperature is 600 ° C).

During Chemical Vapor Deposition, BN is grown on both sides of the copper foil

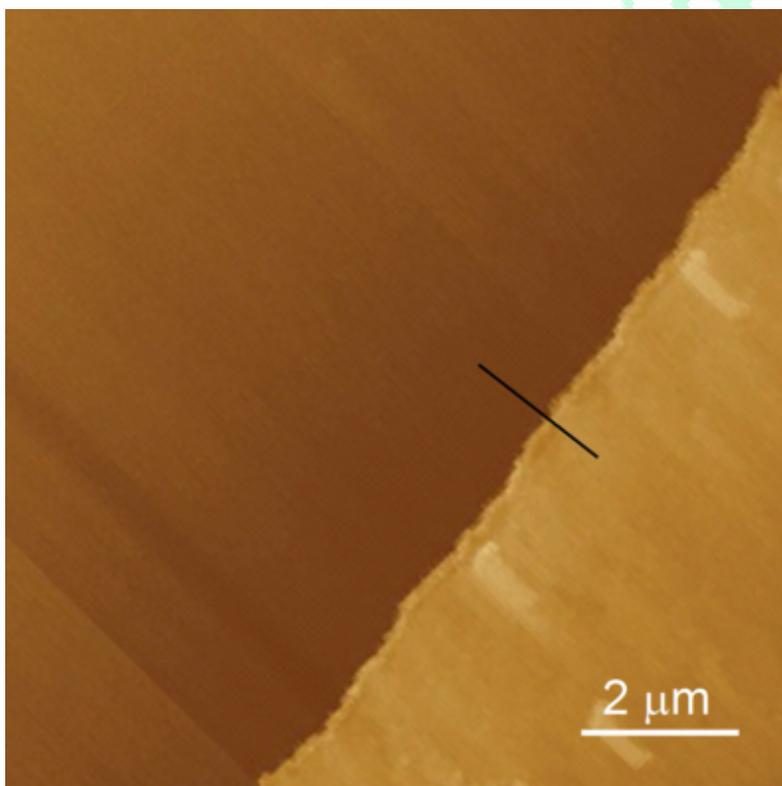
Specifications:

- Close to complete coverage (90-95%), with some minor holes
- Average Thickness of BN film is 13 nm
- Thickness of the copper foil is 20 microns
- Quality is confirmed by TEM. TEM shows perfect hexagonal structure.

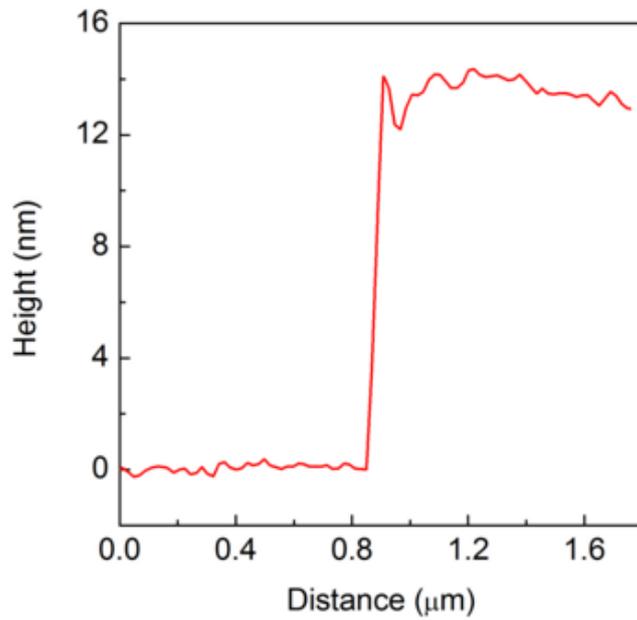
TEM image of perfect hexagonal structure



AFM image of multilayer BN on Cu



AFM scan of multilayer BN on Cu



If transferred onto an SiO₂ substrate, the BN film may be seen as a white film. However, it is difficult to recognize the BN film on copper using a microscope.