

Black Phosphorus

Cat: NM000270

Specification: 500mg

Storage: Seal preservation with inert gas protection. Expiry date: 6 months.

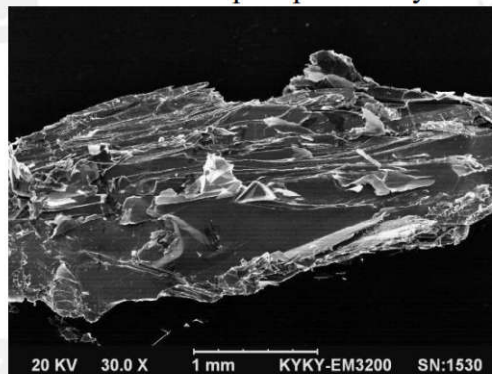
Product Introduction:

Product name	Black Phosphorus
Appearance	Crystal with metallic luster
Purity	>99.998%
Crystal size	1-10 mm
Package	Glass bottles full of Argon and other inert gas

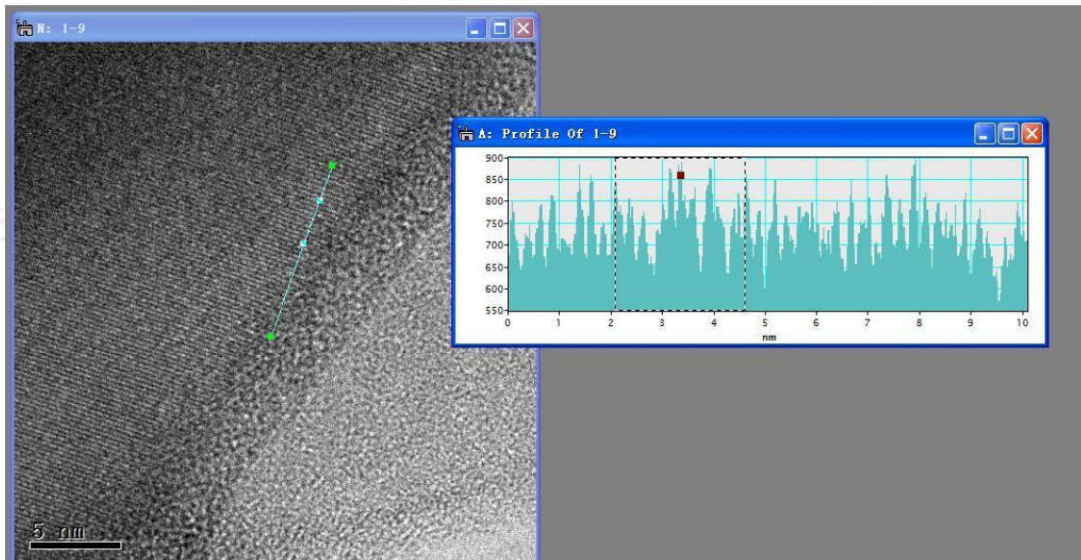
Representation Test Diagram:



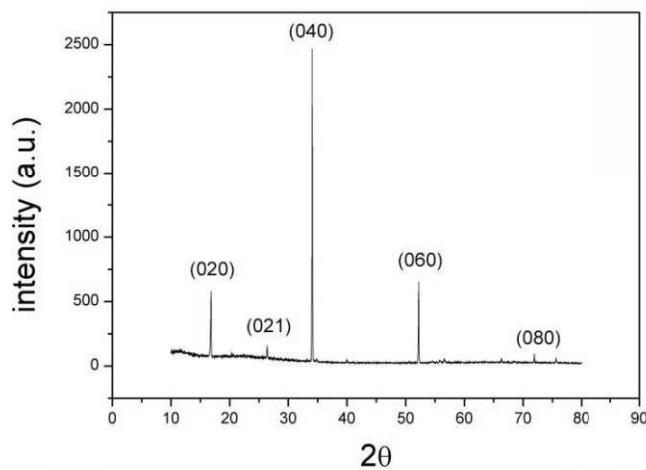
Photo of black phosphorus crystal



SEM image of black phosphorus crystal



HRTEM image of black phosphorus crystal



XRD pattern of black phosphorus crystal

Application:

Compared with other phosphorus allotropes (white phosphorus, red phosphorus), black phosphorus is a thermodynamic stable semiconductor material with high charge-carrier mobility. It can be used in field-effect transistors, saturable absorption studies, linear optical researches, optoelectronic devices and so on.

Note:

1. This product is for scientific research use only. Do not use for medical, clinical diagnostic or therapeutic, food or cosmetic purposes. Do not store in ordinary residential areas.
2. For your safety and health, please wear a laboratory coat and wear disposable gloves and masks to operate.