

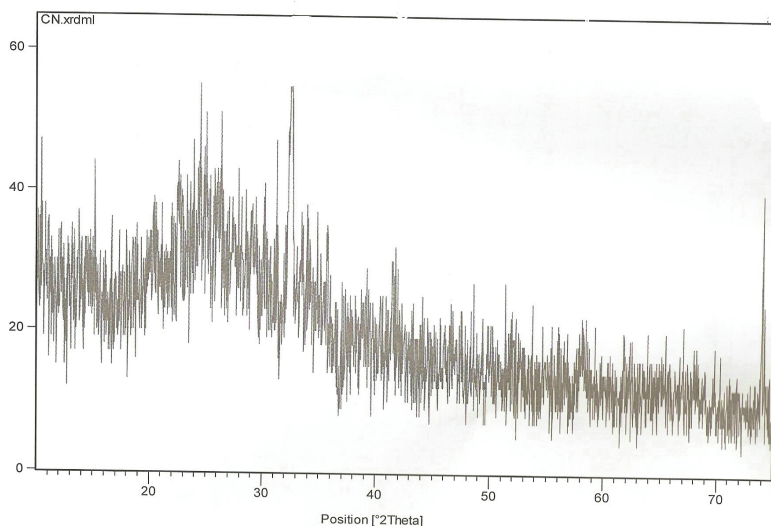
## Carbon Nitride Nanopowder\_C<sub>3</sub>N<sub>4</sub> from NaBond

Carbon nitride nanopowder is a super hard material which was developed in the early 1990s. In the late 1980s, Choen et al made a prediction through theoretical calculation that the compound,  $\beta$ -C<sub>3</sub>N<sub>4</sub>, with similar structure of  $\beta$ -Si<sub>3</sub>N<sub>4</sub>, might possess the rigidity exceeding diamond. For its super rigidity, better heat stability and low-affinity with Fe, Carbon Nitride nanopowder has better promising future in coated tools. This new kind of coated tools injects new energy into machinery processing.

- Specification:

Product Name	Color	Purity	Average particle size	Crystal Form	Loose Density
Carbon Nitride nanopowder	Black	>99.0%	30-50 nm	Hexagonal	0.08g/cm <sup>3</sup>

Table 1 technical indicators of nano-carbon nitride powder



- Storage

The product should be sealed and stored in cool and dry room and not be exposed to air avoiding a conglomeration caused by damp resulting in poorer dispersion and performance. Besides, heavy presses should be prevented.