

Titanium carbonitride_Ti(C_{1-x}N_x) nanopowder from NaBond

Titanium carbonitride_Ti(C_{1-x}N_x) nanopowder is born with excellent mechanical properties in high temperature and good chemical stability, such as high rigidity, excellent abrasion resistance, oxidation resistance and red hotness. It can be used to make cutting tools and wear-resistant mechanical parts. Titanium carbonitride_Ti(C_{1-x}N_x) nanopowder has lower friction coefficient and higher rigidity than Nano TiC, so the tools plated with Titanium carbonitride_Ti(C_{1-x}N_x) nanopowder are suitable for processing stainless steel, titanium alloy, nickel alloy and other hard materials. Its abrasion resistance and stability in high temperature can significantly lengthen its service life. Besides, it can well resist crater wear and back-side wear, and is especially applicable to the processing of ISOP05~P30, M10~M20 and K10~K20 materials.

◆ Specification:

Product Name	Color	Purity	Average particle size	Crystal phase	Specific surface area	Loose Density
Titanium carbonitride_Ti(C _{1-x} N _x) nanopowder	Black	>99.0%	25 nm	Cube	26m ² /g	0.08g/cm ³

◆ 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.