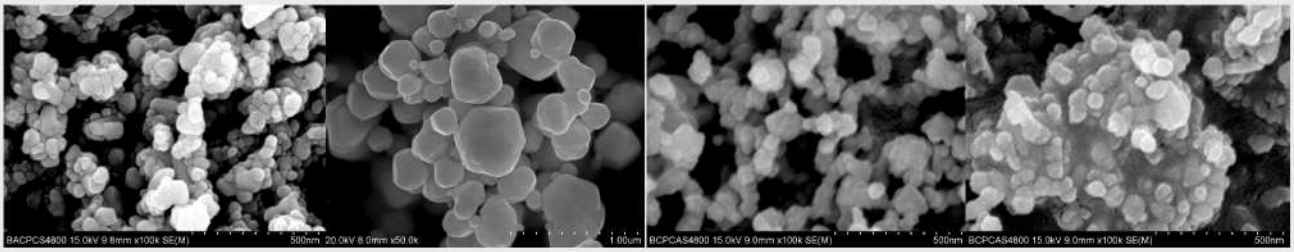
NaBond

Metal & Alloy Nanoparticles



Date updated: Sept. 20, 2010

Various Metal & Alloy Nanopowders with high quality available commercially

- Ag
- Al
- B
- Cu
- Co
- Cr
- Fe
- Mo
- Ni
- Si
- Sn
- Ta
- Ti
- W
- Zn
- Others

Precious Metal

- ✓ Au
- ✓ Ir
- ✓ Pd
- ✓ Pt
- ✓ Rh
- ✓ Ru

Metal Alloy

- ✓ Cu/Zn
- ✓ Fe/Co
- ✓ Fe/Ni
- ✓ Ti/Ni
- ✓ Others

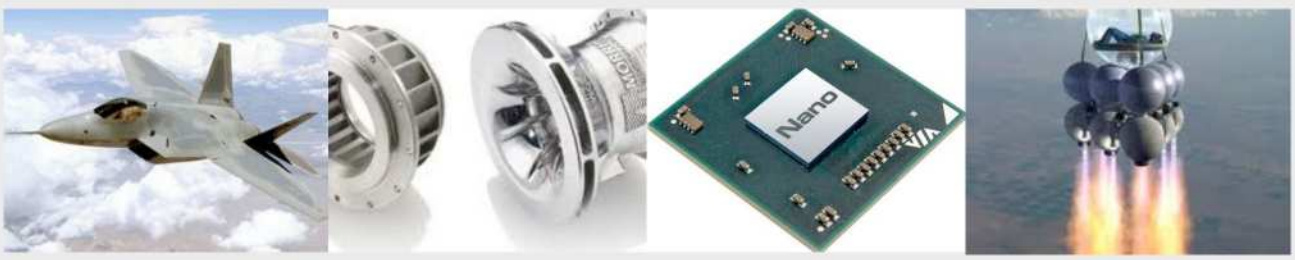
Advantages of Nano Metal Powders:

- Increased Surface Area
- Increased Electrical Conductivity
- Enhanced Magnetic Properties
- Size dependant absorption properties
- Faster sintering kinetics

Applications of Nano Metal Powders:

- Catalysts & Hydrogen Storage
- Solid Rocket Fuel
- Conducting Paste
- Magnetic tapes & fluid
- Targeted drug delivery
- Metallic paint

New field exploiting the advantages of nanopowders continue to be discovered. If you have an application that could benefit from this new technology, please contact us.



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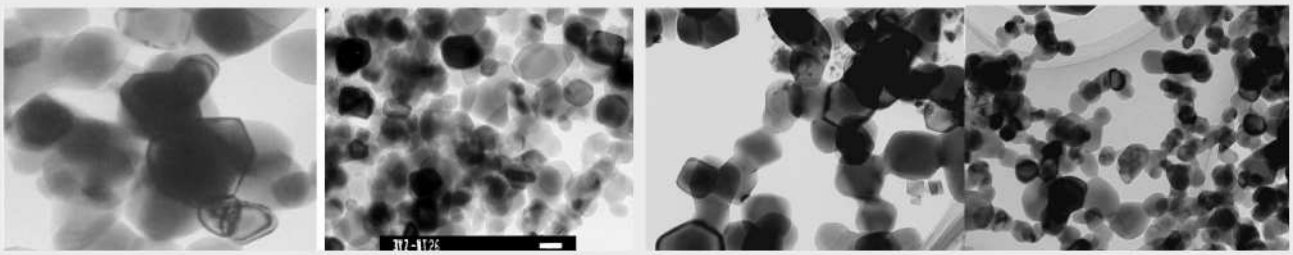
NaBond

Oxide Nanopowders



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Various Oxide Nanopowders with high quality available commercially

List of available Oxide Nanopowders

- Al_2O_3, Alpha & Gamma
- ATO
- CaO
- Co_3O_4
- Cr_2O_3
- CuO
- Fe_3O_4 & Fe_2O_3
- ITO
- In_2O_3
- MgO & $Mg(OH)_2$
- MoO_3
- Ni_2O_3 & NiO
- SiO_2
- SnO_2
- TiO_2
- WO_3
- ZnO
- ZrO_2
- .....

List of Complex Oxide Nanopowders

- 3YSZ, 5YSZ, 8YSZ
- $CoFe_2O_4$
- GDC
- $LiFePO_4$
- LSM Cathode nanopowder
- LSCF Cathode nanopowder
- SSC nanopowder & micro-powder
- SDC nanopowder & micro-powder
- .....
- Other customized Complex Oxides

Advantages of NaBond Nano Oxides

- ☑ High Purity
- ☑ High & Constant quality
- ☑ Lowest Cost
- ☑ Short lead time for large scale quantity
- ☑ Easy to disperse

Shipping
Almost all Oxide Nanopowders from NaBond are not considered hazardous and therefore is not regulated by DOT or IATA.

Storage
Oxide Nanopowders have a shelf life of or more than 2 years. Keep at at dry & cool place.

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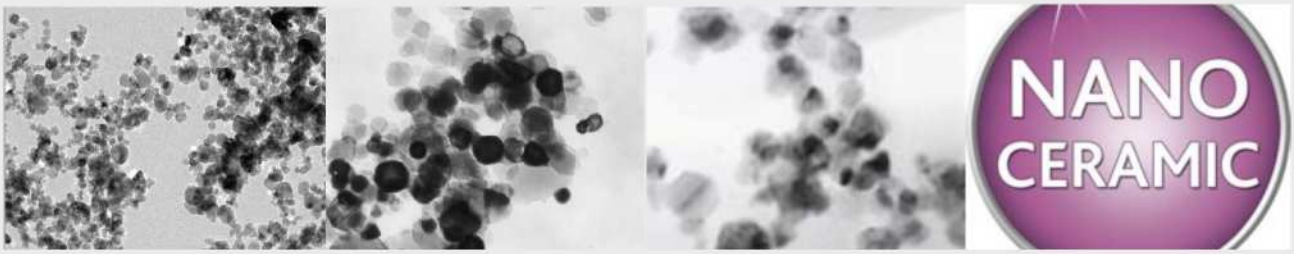
Carbide, Boride & Nitride Nanopowders



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Various Carbide, boride, Nitride Nanopowders with high quality available commercially

- AlN
- BN
- B4C
- Si3N4
- SiC, nanopowder & whiskers
- SiB6
- TiC
- TiN
- WC
- ZrB2
- TiB2
- .....

Applications in Astronautic /Aeronautic Industry

★Ceramic-Based Compound Materials
★Metal-Based Compound Materials
★Functional Compound Materials

- ☑ Nano-ZrC, used to strengthen thermal protection materials
- ☑ Nano-AlN, used to improve heat-conducting performance of insulated mica tape of high-power motor
- ☑ Nano SiC, ZrC, TiC, TiN and B4C on the metal surface can bring super abrasion resistance and self-lubrication.
- ☑ Nano-SiC used in radar and stealth materials as wave-absorber.
- ☑ Adding Nano-Si, SiC, Si3N4 and TiN to the alloy of aluminum, copper, silver, steel and iron can make new-type alloy materials of light weight, high strength and good thermal stability.
- ☑ Nano-Si3N4 in large ceramic missile shield.

Advantages of Nano ceramic powders:

- Improve the intensity, tenacity and tractility of Metals, Polymers, and Resins.
- Nano-TiN can serve as a nucleating agent when applied to modified thermoplastic engineering plastic. Nano-TiN also has excellent electric conductivity.
- Nano-AlN has super thermal conductivity.
- The application of nano ceramic powders to coating can improve the abrasion resistance, corrosion resistance and oxidative stability.

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