

NICKEL Oxide CORE SHELL

99.9%

(Purity)



Nickel oxide NiO is an important transition metal oxide with cubic lattice structure. It has attracted increasing attention owing to potential use in a variety of applications such as: catalysis, battery cathodes, gas sensors, electrochromic films and magnetic materials. It can also be extensively used in dye sensitized photocathodes. It exhibits anodic electrochromism, excellent durability and electrochemical stability, large spin optical density and various manufacturing possibilities. Also for low material cost as an ion storage material, NiO semiconductor becomes a motivating topic in the new area of research. Because of the volume effect, the quantum size effect, the surface effect and the macroscopic quantum tunnel effect, nanocrystalline NiO is expected to possess many improved properties than those of micrometer-sized NiO particles.

Applications

- ✓ As a catalyst and as anti-ferromagnetic layers
- ✓ In light weight structural components in aerospace
- ✓ Adhesive and coloring agents for enamels
- ✓ In active optical filters
- ✓ In ceramic structures
- ✓ In automotive rear-view mirrors with adjustable reflectance
- ✓ In cathode materials for alkaline batteries
- ✓ Electro chromic materials
- ✓ Energy efficient smart windows
- ✓ P-type transparent conductive films

Stock no:
NS6130-12-001532

CHEMICAL IDENTIFIERS

Purity	:	99.9%
Chemical name	:	Ni(OH) ₂
APS	:	100nm
Molecular Weight	:	92.71g/mol
Density	:	4.15g/cm ³
Melting Point	:	230 °C



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20ZICE4589C



19ZAZGO1274G



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