

NS6130-12-001787

CERIUM DOPED ZIRCONIUM Nanopowder

Quick Facts

Product	:	Cerium Doped Zirconium Nanopowder
Stock No	:	NS6130-12-001787
CAS	:	53169-24-7
Molecular Formula	:	CeZrO ₂
Form	:	Powder
APS	:	80-100nm

Purity
99.9%

Zirconia (ZrO₂) is one of the promising materials for many industrial applications. ZrO₂ finds its applications in various fields such as solid oxide fuel cells, photocatalysis, and ceramics and so on. Due to their non-toxicity, ZrO₂ is used in some clinical applications such as tooth filling. Due to its high thermal and chemical stability is used as thermal and chemical resistance barrier coatings in space applications. Nanocrystalline ZrO₂ and doped ZrO₂ are current target materials in the field of Ceramics, Optoelectronics, Piezoelectric, Catalysis, Humidity sensor and Electrochemical sensor applications. ZrO₂ known to exist in three different polymorphs such as monoclinic (m), tetragonal (t) and cubic (c) phases

Applications:

Cerium doped zirconia (ZrO₂) nanoparticles are used in the electrochemical investigation of one of the important neurotransmitter Dopamine. Cerium doped ZrO₂ nanoparticles finds an interesting application for the electrochemical detection of Dopamine

CeZrO₂
APS 80-100nm



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

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