

NS6130-12-000291

LEAD ZIRCONATE Titanate Nanoparticles

Quick Facts

Product	:	Lead Zirconate Titanate Nanopowder
Stock No	:	NS6130-12-000291
CAS	:	12626-81-2
Molecular Formula	:	$O_5PbTiZr$
Form	:	Crystalline Powder

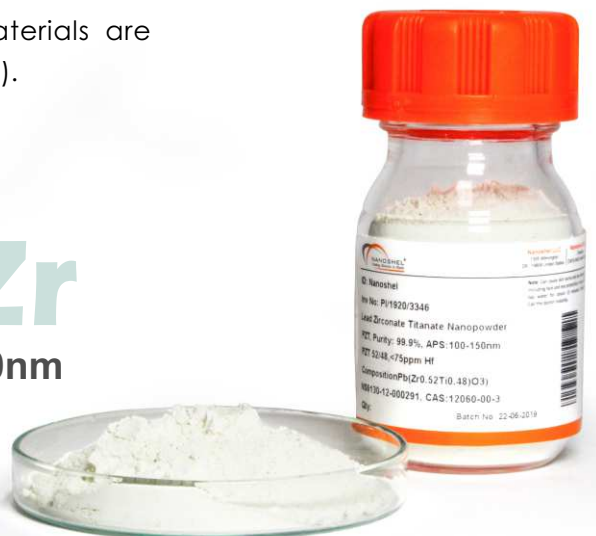
Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
303.65g/mol	7.7g/cm ³	N/A	100-150nm

PZT materials, and piezoelectric materials more generally, exhibit a unique range of properties. In a basic sense, if a piezoelectric material is deformed, an electric charge is generated in what is known as the piezoelectric effect. Lead zirconate titanate is an inorganic compound with the chemical formula $Pb[Zr_xTi_{1-x}]O_3$ ($0 \leq x \leq 1$). Also called lead zirconium titanate, it is a ceramic perovskite material that shows a marked piezoelectric effect, meaning that the compound changes shape when an electric field is applied. It is used in a number of practical applications such as ultrasonic transducers and piezoelectric resonators. Lead zirconate titanate-based materials are components of ceramic capacitors and STM/AFM actuators (tubes).

$O_5PbTiZr$
APS 100-150nm



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

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