

NS6130-12-000291

Quick Facts

LEAD ZIRCONATE

Titanate Nanoparticles

Product Lead Zirconate Titanate Nanopowder

Stock No NS6130-12-000291

CAS 12626-81-2 O₅PbTiZr Molecular Formula

Form Crystalline Powder **Purity** 99.9%

Technical Specification

Molecular Weight	Density	APS
303.65g/mol	7.7g/cm³	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[ZrxTi1-x]O3 (0≤x≤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).



APS 100-150nm











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nate Titanate Na Purity: 99.9%, APS:100-150nn

Pb(Zr0.52Ti0.48)O3)

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