

Follow us:



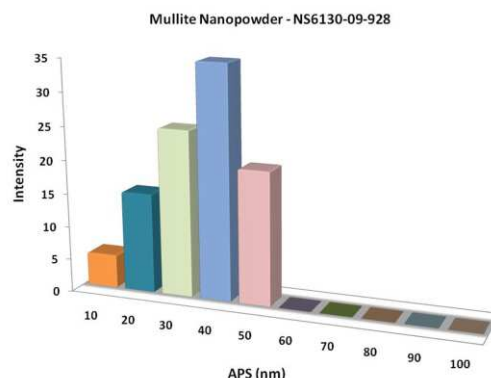
NS6130-09-928

Purity
>99.9%
 CAS No.
1302-93-8

Mullite Nanoparticles

Mullite is becoming increasingly significant in electronic, optical, and high-temperature structural applications. Mullite is one of the main raw materials for the ceramic industry. It is an input for the production of refractory materials, catalyst support, electronic and optic devices. It is also used in thermal insulators, hot gas filters and biological and biomedical scaffolds. Its synthesis is a complex set of high-temperature and solid state reactions between silica (SiO_2) and alumina (Al_2O_3) based on the mutual diffusion of Al^{3+} , Si^{4+} and O^{2-} ions amongst particles.

It is an economically important material as a structural ceramic given that it retains a significant fraction of its room temperature strength at high temperatures, and strongly resists thermal shock, corrosion, and creep. Its low dielectric and thermal expansion coefficients suggest its use in electronic packaging applications. It is also used in composites and from the combination of mullite properties, mullite/alumina composites have been long regarded as a composite system of high promise for high-performance, high temperature structural materials.



Technical Specification:

Standard Plate Count	Yeast and Mould Count	Density	pH	Silver coating
≤200 cfu/g	≤100 cfu/g	3.16 g/cm ³	6.5 ~ 6.8	2-3Wt%

Chemical Composition

Product	Weight Percent (nominal)	
		Other Metal
Mullite Nanoparticles	>99.9%	8000 ppm

Applications:

- ✓ Electronic packaging applications
- ✓ Refractory materials
- ✓ Catalyst support
- ✓ Electronic and optic devices
- ✓ Thermal insulators
- ✓ Hot gas filters
- ✓ Biological and biomedical scaffolds


 ISO 9001:2015
 CERTIFIED COMPANY


202ICE4588C

192AZGO1274G

202ICE4588M

INTELLIGENT MATERIALS PVT LTD
 Derabassi
 Punjab (140507)
 INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED
 Chapel House,
 Chapel St Cheshire,
 CW12 4AB United Kingdom

+44 1782 454 144, +44 74 105 48802

NANOSHEL LLC
 3422 Old Capitol Suit
 1305 Wilmington DE - 19808
 United States

+1 646 470 4911