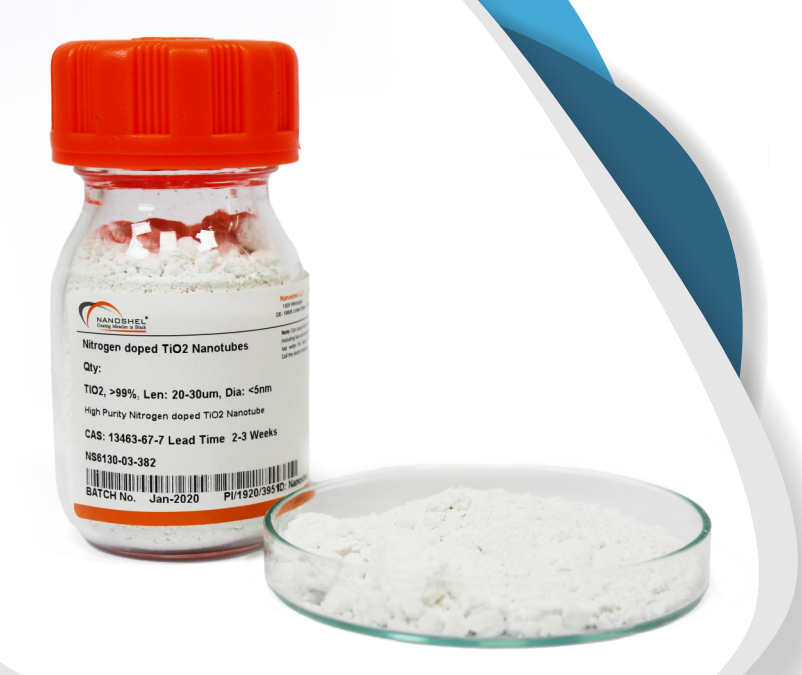
NANOSHEL
Creating Miracles in Black

NITROGEN DOPED TiO2 NANOTUBES

Quick Facts

Product	:	Nitrogen Doped TiO2 Nanotubes
Stock No	:	NS6130-03-382
CAS	:	13463-67-7
Form	:	Powder
Purity	:	99.9%
Color	:	White
APS	:	<80nm



Nitrogen doped TiO2 nanotubes could be prepared via various routes including ion implantation method, chemical bath deposition, ammonia annealing at low and high temperatures, anodization of titanium in the electrolyte containing nitrogen precursor and others. Nitrogen doped Titanium dioxide (TiO2) is one of the most widely studied materials for applications in solar cells , pollutant degradation , photolysis of water , gas sensor , and bio-applications , due to its excellent photocataytic activity, non-toxicity, high stability, low cost, and biocompatibility.

TiO2 nanotubes could be potentially used for photocataytic degradation of pollutants in water and gas phases, inactivation of microorganisms, hydrogen production and photo conversion of CO2.

Applications

- ✓ Solar cell
- ✓ Photolysis of water
- ✓ Pollutant degradation
- ✓ Gas sensor
- ✓ Bio-applications

APS
<80nm

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I www.nanoshel.com I sales@nanoshel.com

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CERTIFIED COMPANY

20ZICE4589C 19ZAZGO1274G 20ZICE4588M

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 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC
3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States
+1 646 470 4911