





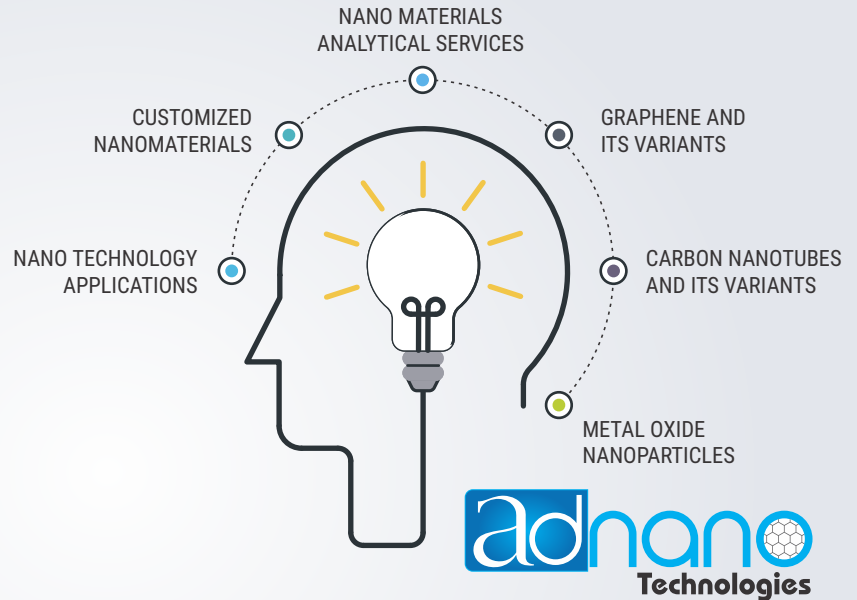
# ABOUT NANO TECHNOLOGY

Nanotechnology is a term that describes the field of science that studies and manipulates the properties of materials at a scale of less than 100 nanometers. At this size particles display unusual properties affecting the materials directly, making them harder lighter and more durable.

Nanotechnology is one of the most important technologies in this century and it is evoking a new industrial revolution. The trend of industrial elements towards small features, high density, fast transmission, low energy cost and high production rate has generated a greater requirement of miniaturization for elemental materials. Nanomaterial containing nanostructures are the best material to fulfill these needs.

# ABOUT US

One of the premier nanotechnology-based company founded in the year 2013 in Shivamogga, Karnataka, India. We work on the horizon of nanotechnology, with an aim to Add Nano Technology in Life. We are into nanomaterials manufacturing and application development company, where we manufacture Graphene, various forms of Carbon Nanotubes and other metal based nano particles in bulk quantity. AD-NANO Technologies is a manufacturers and R&D representation company dedicated to providing innovative solutions into technological field by introducing nano technology in it.



Our TEAM of scientists and engineers are developing various applications related to nanotechnology by doing enormous R&D in the field on nanotechnology with a passion to add nanotechnology in life.

We have bridged the gap between inspiration and innovation by connecting our customers with the nano technology in their lives which is required to solve their engineering & technical problems, also to upgrade the technology to the next generation.

We also manufacture conductive inks like Carbon nanotubes conductive inks, Graphene conductive ink, Graphite conductive ink, which are widely used in industrial sectors and also in the area of research and development programs.

# OUR MISSION

To be a reputable and indigenous nanotechnology-based company helps our customers to go beyond the limits of current technologies and successfully engineer their future with our nanotechnology based value-added products.



# OUR VISION

Improve the living standard of peoples by adding our nanotechnology-based products in their life.

# OUR TEAM

Ad-Nano Core Team consist of group of scientist and engineers having tremendous years of experience in the field of nanotechnology. It comprises of dynamic individuals with passion and dedication and are instrumental in developing various applications in the field of nanotechnology and profile the company as a reputable nanotechnology player.

Our continued success depends on every employee, from back-end to the front office. Due to their relentless pursuit of excellence and commitment to high standards, our team has helped the Company's goals into substantial accomplishments over the years. Over the last few years, Ad-Nano Technology significant growth and expanded regionally including setting up distributors and sales channels in different parts of globe.

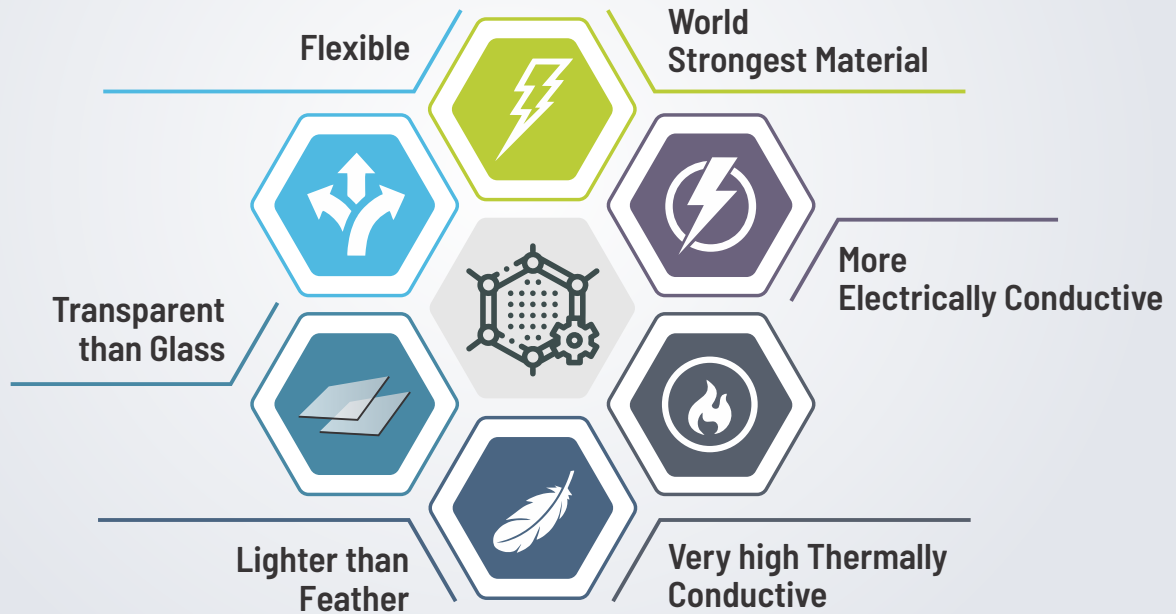
Each employee is a specialist in his or her field. Together as a team, we make sure to provide best nanotechnology based products and solutions to our clients. Every member of the Ad-NANO believes strongly in the vision and core values of the company to bring nanotechnology in life.



# Graphene

We rejoice to be a manufacturer of high quantity of graphene in bulk quantity. As Graphene is an allotrope of carbon whose structure is a single planar sheet of  $sp^2$  bonded carbon atoms that are densely packed in a honeycomb crystal lattice.

## Properties



# We Manufacture

01



Graphene

02



Functionalization of Graphene

03



Graphene Oxide

04



Reduces Graphene Oxide

05

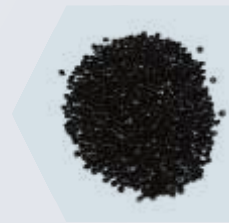
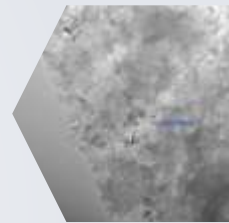
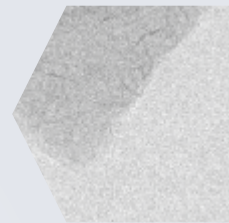


Dispersion in various solvents

06

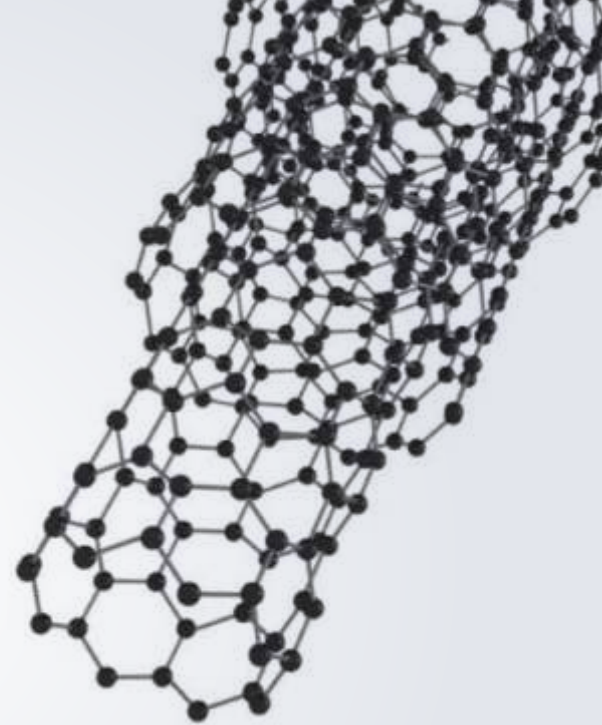


Graphene Polymer Masterbatch



# Carbon Nanotubes

CNTs are allotropes of carbon with molecular structures that are tubular in shape, having diameters on the order of a few nanometers and length that can be as much as several millimeters.



## CNTs exist in Two Forms

Single-walled  
Carbon Nanotubes (SWCNT)

Multi-walled  
Carbon Nanotubes (MWCNT)

## PROPERTIES

**1** Extremely  
High Electrical  
Conductivity



**2** Very good  
thermal  
Conductivities



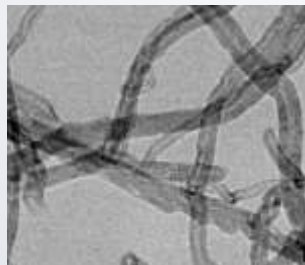
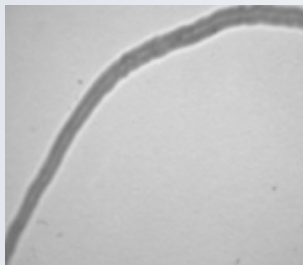
**3** Large aspect  
Ratios



**4** Outstanding  
Mechanical  
Properties



# Multiwalled Carbon Nanotubes



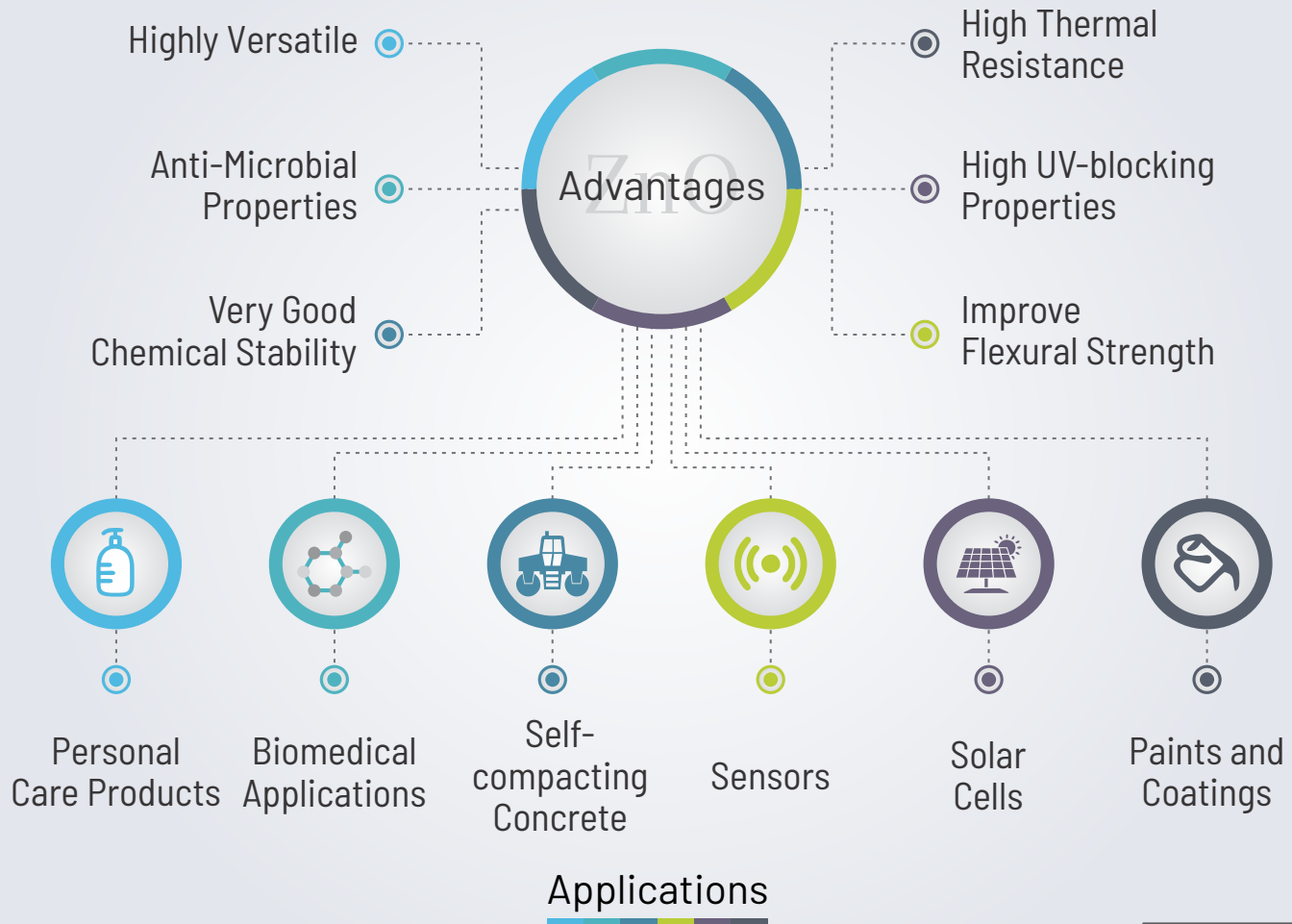


# Zinc Oxide Nano Particle

We manufacture ZnO nanoparticles by solgel method in bulk quantity with multi-point quality check to get the Purest form of Zinc oxide nanopowder.

## Specifications

ZnO	Description
Purity	99.9%
Average Particle Size	10-40 nm
SSA	100-120 m <sup>2</sup> /g
Bulk Density	0.58 g/cm <sup>3</sup>



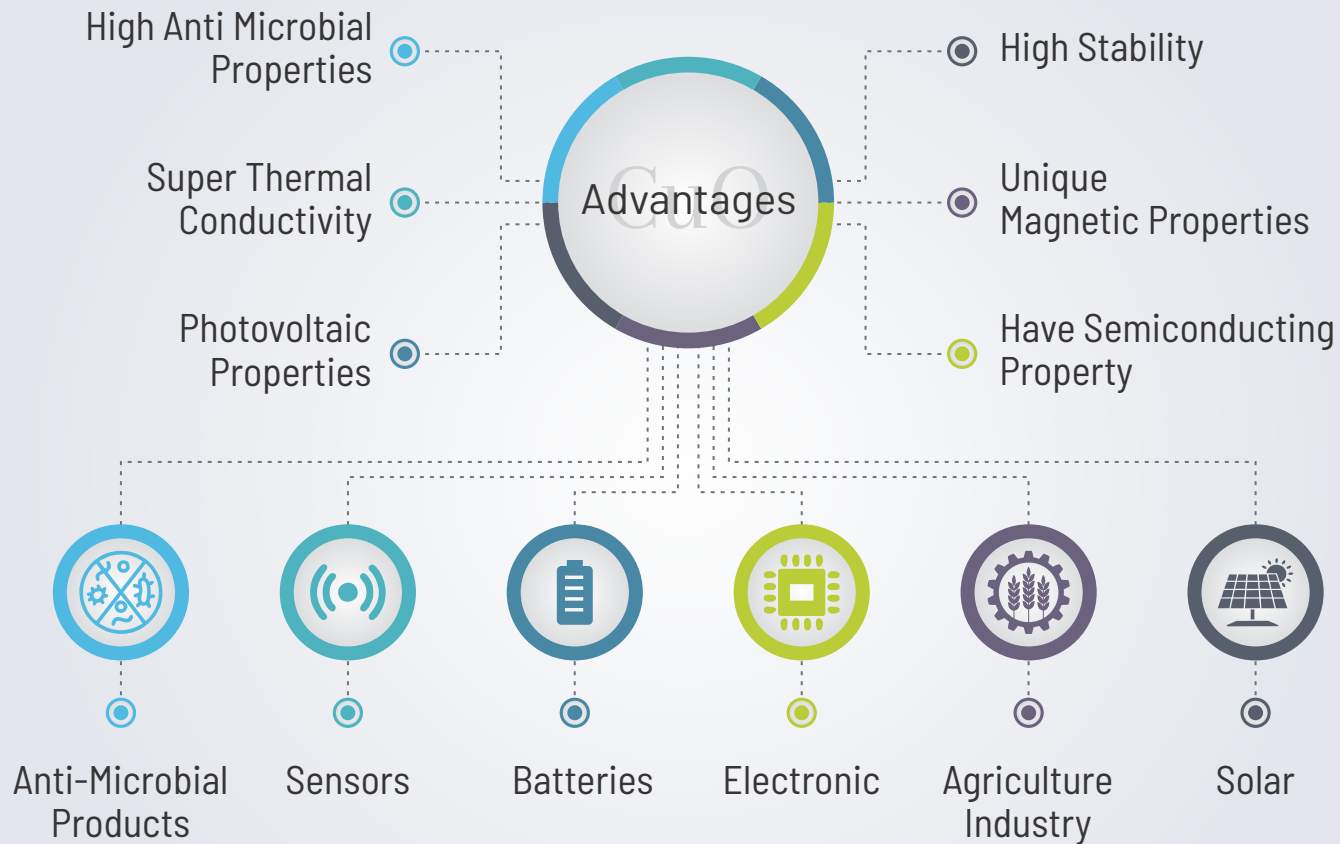


# Copper Oxide Nano Particle

We manufacture CuO nanoparticles by solgel method in bulk quantity with multi-point quality check to get the Purest form of Copper oxide nanopowder.

## Specifications

CuO	Description
Purity	99.9%
Average Particle Size	30-70 nm
SSA	60-80 m <sup>2</sup> /g
Bulk Density	0.66 g/cm <sup>3</sup>





# Magnesium Oxide Nano Particle

We manufacture MgO nanoparticles by solgel method in bulk quantity with multi-point quality check to get the Purest form of MgO nanopowder.

## Specifications

MgO	Description
Purity	99.9%
Average Particle Size	20-50 nm
SSA	110-130 m <sup>2</sup> /g
Bulk Density	0.6 g/cm <sup>3</sup>



## Applications

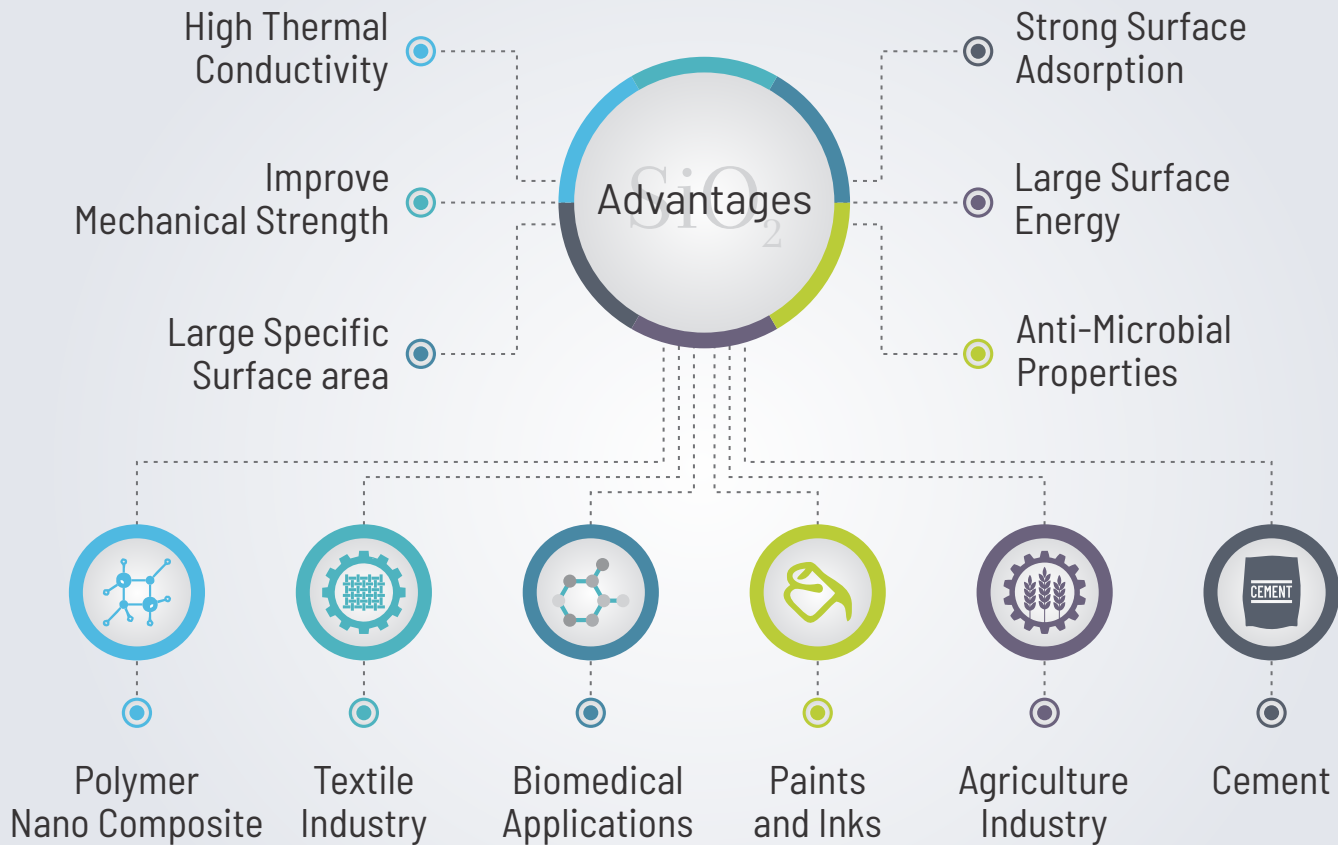


# Silicon Dioxide Nano Particle

We manufacture  $\text{SiO}_2$  nanoparticles by solgel method in bulk quantity with multi-point of quality check to get the Purest form of Silicon dioxide nanopowder.

## Specifications

$\text{SiO}_2$	Description
Purity	99.9%
Average Particle Size	20-50 nm
SSA	~220 m <sup>2</sup> /g
Bulk Density	0.25 g/cm <sup>3</sup>



## Applications

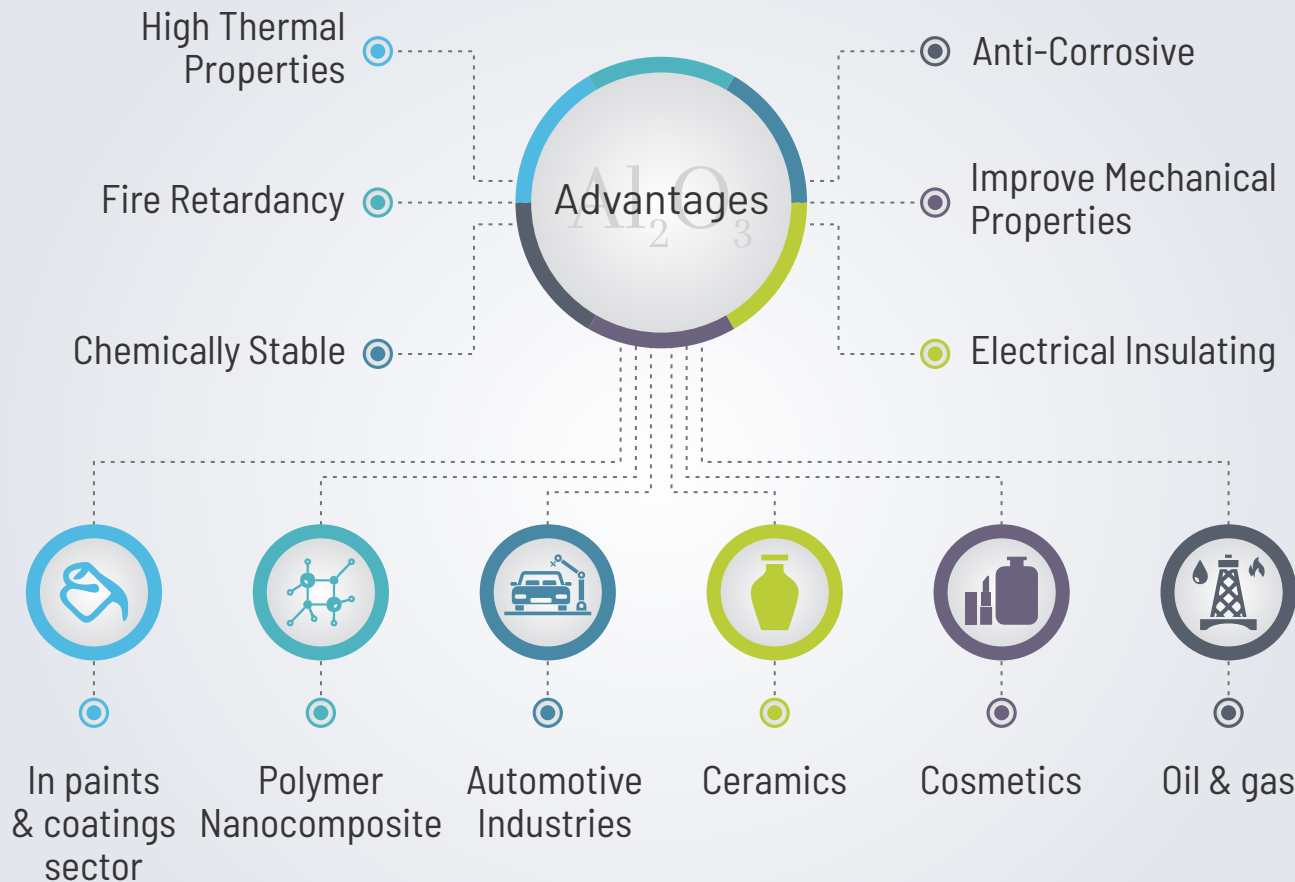


# Aluminium Oxide Nano Particle

We manufacture  $\text{Al}_2\text{O}_3$  nanoparticles by solgel method in bulk quantity with multi-point quality check to get the Purest form of the Purest form of  $\text{Al}_2\text{O}_3$  nanopowder.

## Specifications

$\text{Al}_2\text{O}_3$	Description
Purity	99.9%
Average Particle Size	20-50 nm
SSA	~110 m <sup>2</sup> /g
Bulk Density	0.5 g/cm <sup>3</sup>



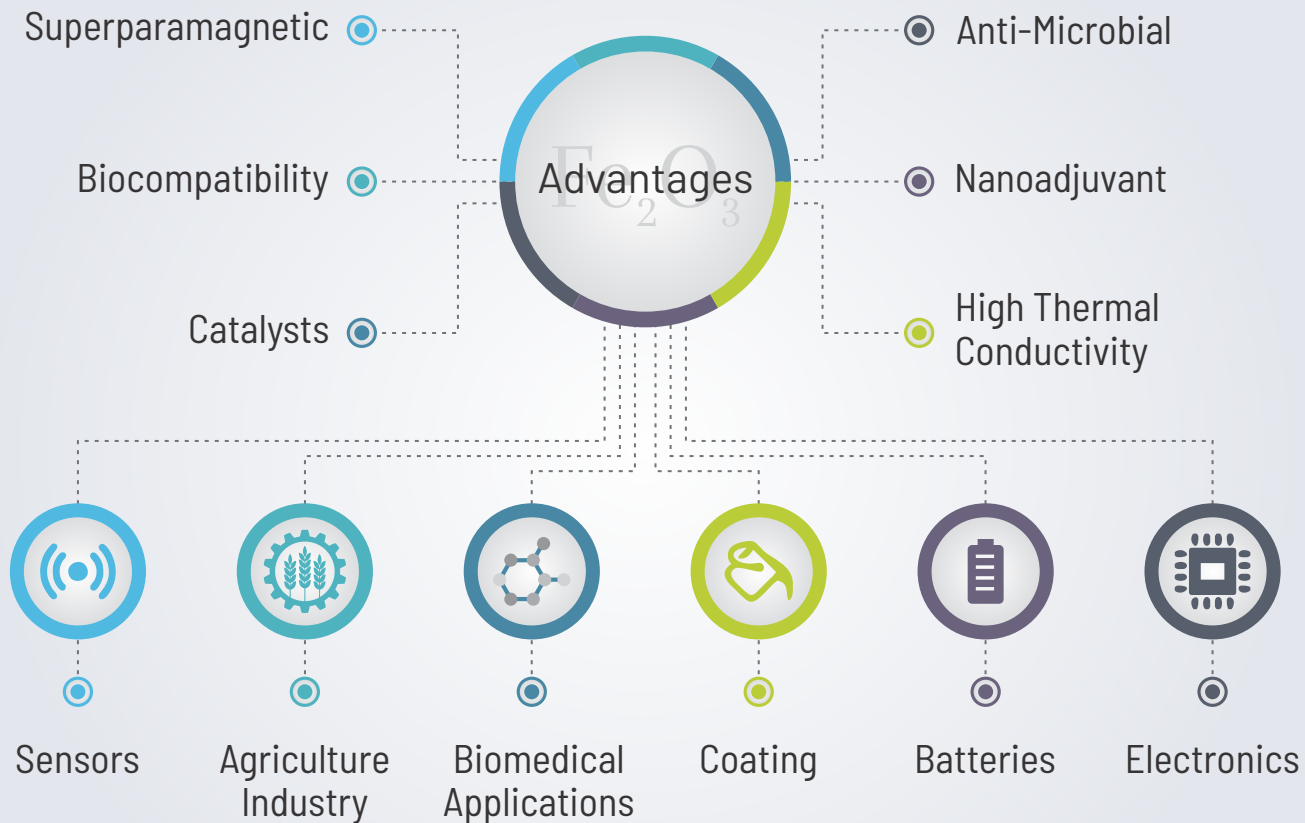


# Iron Oxide Nano Particle

We manufacture  $\text{Fe}_2\text{O}_3$  nanoparticles by solgel method in bulk quantity with multi-point quality check to get the purest form of Iron oxide nanopowder.

## Specifications

$\text{Fe}_2\text{O}_3$	Description
Purity	99.9%
Average Particle Size	30-60 nm
SSA	80-100 m <sup>2</sup> /g
Bulk Density	0.69 g/cm <sup>3</sup>



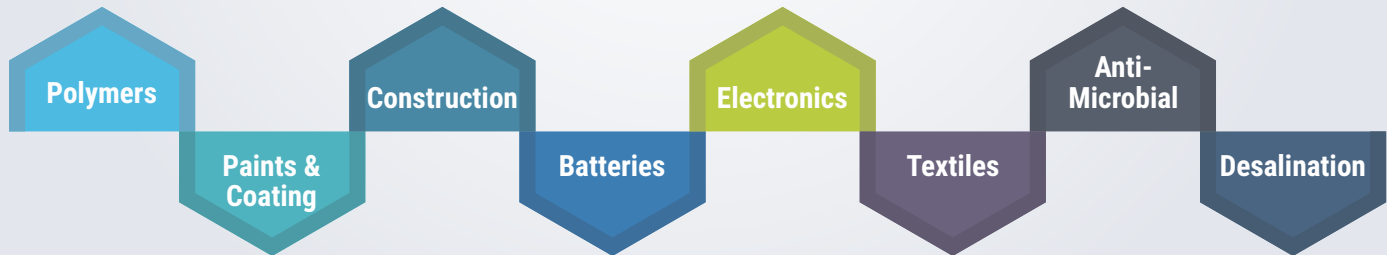
# Nano Technology Based Application Development

We are experts in helping clients to develop, create or enhance their product lines by implanting nanomaterials and guide them throughout the development process.

We have the scale and expertise to solve challenging problems for our clients. Our highly qualified team of scientists and engineers has extensive experience in developing real time applications in nanotechnology field.

We provide nanotechnology solution with scientific rigor to fulfil our client needs. In this segment we undertake and guarantee the entire consultancy service to fulfil our client requirements..

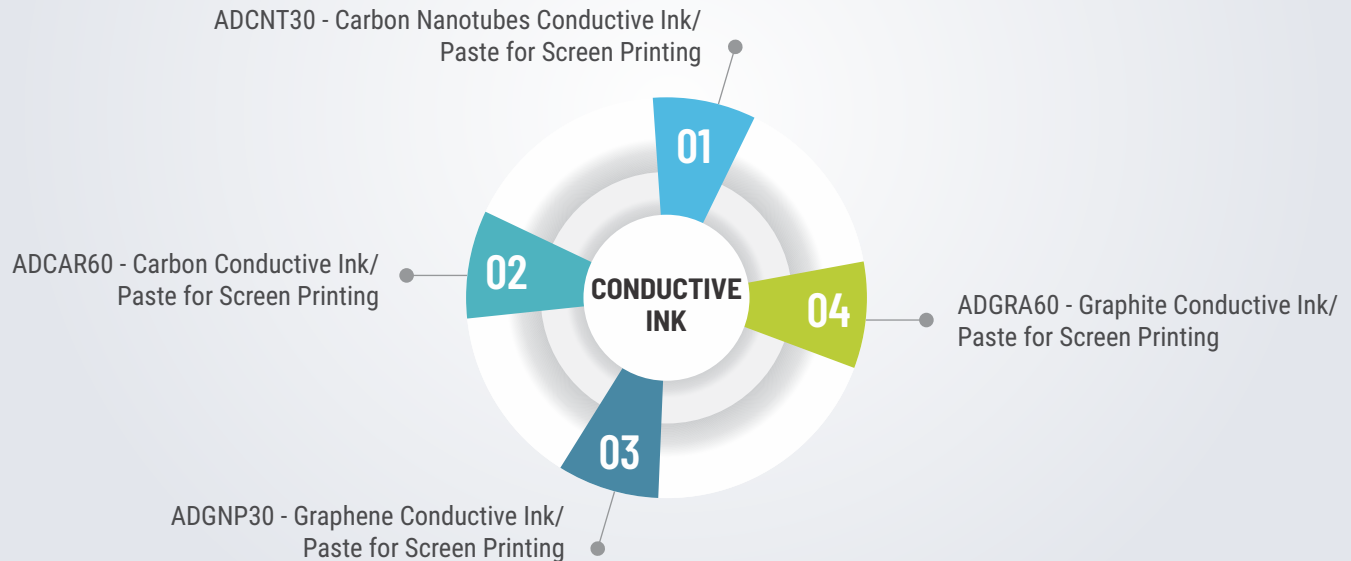
Our diversified industry-leading portfolio delivers a broad range of solution to customer globally in high-growth sectors such us



# Conductive Ink

Be a prime source for conductive inks for electronic applications.

Our inks has good electrical conductivity used for various electronics and thermal applications by screen printing, dipping and brush coating. Very Good Adhesion On Paper, PET, Mylar, Glass, Epoxy, Polyamide, Acrylic, Silicone, Metals and many other substrates. Dries quickly at low temperature

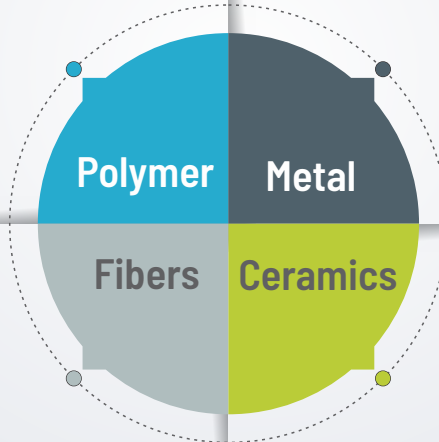


# High Performance Composites

Graphene is the world's strongest material and MWCNT as a roll form of graphene, it can also be used as an additive to enhance the strength of other materials. Our Graphene, MWCNT and its derivative filled with composites shown immense potential applications due to its exceptional reinforcement in composites.

- ⚙️ Electrically Conductive
- ⚙️ Improves Mechanical Property
- ⚙️ Stability

- ⚙️ Strong
- ⚙️ Anti Microbial
- ⚙️ Durable

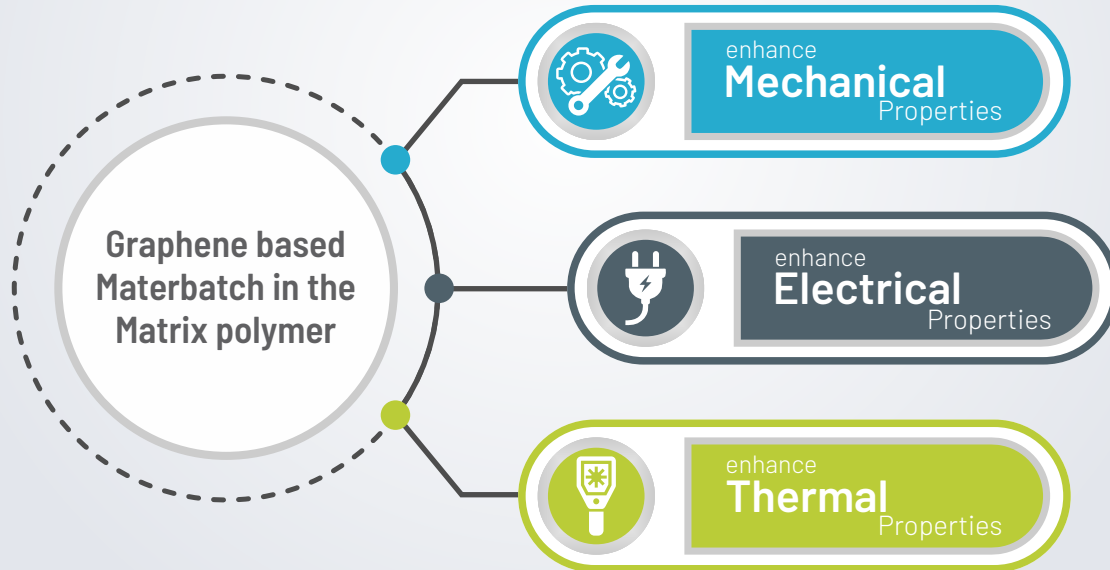


- ⚙️ Improves Mechanical property
- ⚙️ Fire resistance
- ⚙️ Corrosion Resistance

- ⚙️ Toughness
- ⚙️ Thermal Property
- ⚙️ Wear Resistance

# Graphene and MWCNT Polymer Nanocomposites

Adnano Technologies Manufactures Graphene, MWCNT and Polymer nanocomposites/masterbatches.



**Anti-Corrosive Paint/Coating:** graphene's high resistivity can be used for durable paints/coatings that do not crack and also resistant to water and oil. It also have a strong barrier effect which can contribute to extraordinary anti-oxidant and anti-UV Properties.

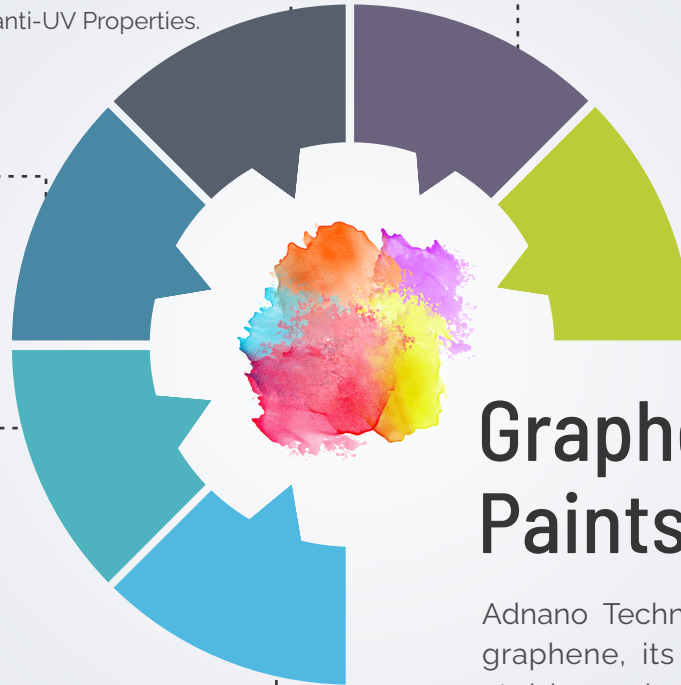
**High Performance Adhesives** enabled by graphene's high adhesion property

**Anti-Microbial Coatings** due to its high anti-microbial properties

**Various conductive paints** due to its excellent electrical and thermal conductivity.

**Graphene enables** a wide range of functional paints, for many possible applications.

**Graphene's incorporation** will tremendously improve the present properties of paints and coatings.



# Graphene based Paints & Coating

Adnano Technologies manufactures the graphene, its variants and customized stable and suitable graphene base dispersions which will incorporate in your paints and coating.

# Graphene Epoxy Nano Composite

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graph LR; A((Graphene Epoxy Nano Composite)) --- B[We manufacture two component system non-reactive Epoxy graphene composite depend upon their applications, usage and properties.]; A --- C[We manufacture homogenous dispersion that is better load transfer to filler material which results into better mechanical properties.]; A --- D[Graphene Epoxy nanocomposites provides enhancement of Mechanical strength, Electrical conductivity, Thermal conductivity and thermal stability.]; A --- E[The fabricated nanocomposites showed enhancement in tensile strength from 55.43 MPa to 78.96 MPa at 1wt% of nanofiller by nearly one hundred percent increase in impact strength.]; A --- F[This can be used in automotive, electronics, aerospace and for other sectors.]
```

• We manufacture two component system non-reactive Epoxy graphene composite depend upon their applications, usage and properties.

• We manufacture homogenous dispersion that is better load transfer to filler material which results into better mechanical properties.

• Graphene Epoxy nanocomposites provides enhancement of Mechanical strength, Electrical conductivity, Thermal conductivity and thermal stability.

• The fabricated nanocomposites showed enhancement in tensile strength from 55.43 MPa to 78.96 MPa at 1wt% of nanofiller by nearly one hundred percent increase in impact strength.

• This can be used in automotive, electronics, aerospace and for other sectors.

We manufacture two component system  
Non-reactive Epoxy graphene composite depend upon  
their applications, usage and properties

Graphene epoxy paint can be applied on  
any Metal surface with good adhesion.

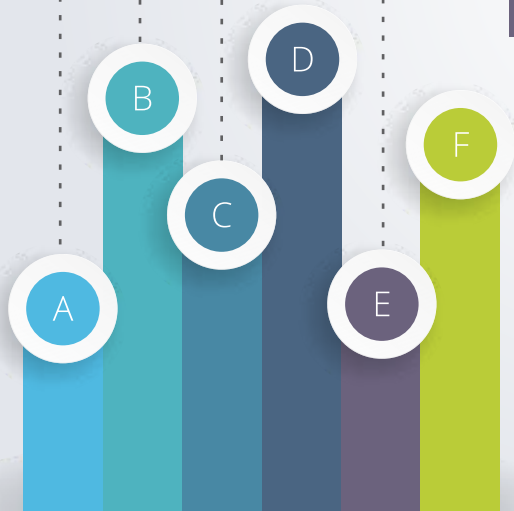
Easy to apply via  
spray coating technique

Hydrophobic, Conductive, Anticorrosive, High chemical stability  
and Temperature Resistance, Good Diffusion Barrier for certain  
metal ions, Insulating, Antimicrobial, etc.,

Our nano coatings provide significant benefits that are valuable for aerospace,  
defense, medical, marine, antistatic flooring and oil industries.

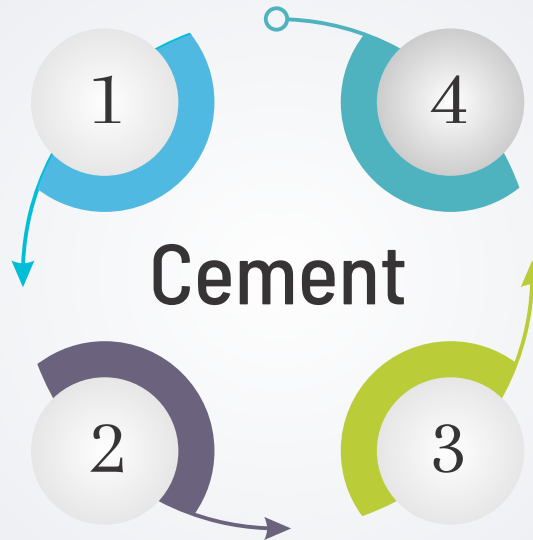
Our Anticorrosive nanocoating have brought  
great impact on the protection of metals and  
alloys in various environments

# Graphene Epoxy Coating/ Paint for Anticorrosion



Adnano Technologies provides graphene and its customised dispersion for the construction application to change the present complications facing in construction industries to the present properties of cement. With small incorporation of graphene in concert can improve the properties of cement.

It is very much useful for Marine construction, where concrete will suffer sulfate and chloride attacks constantly due to the salts present in the sea water.

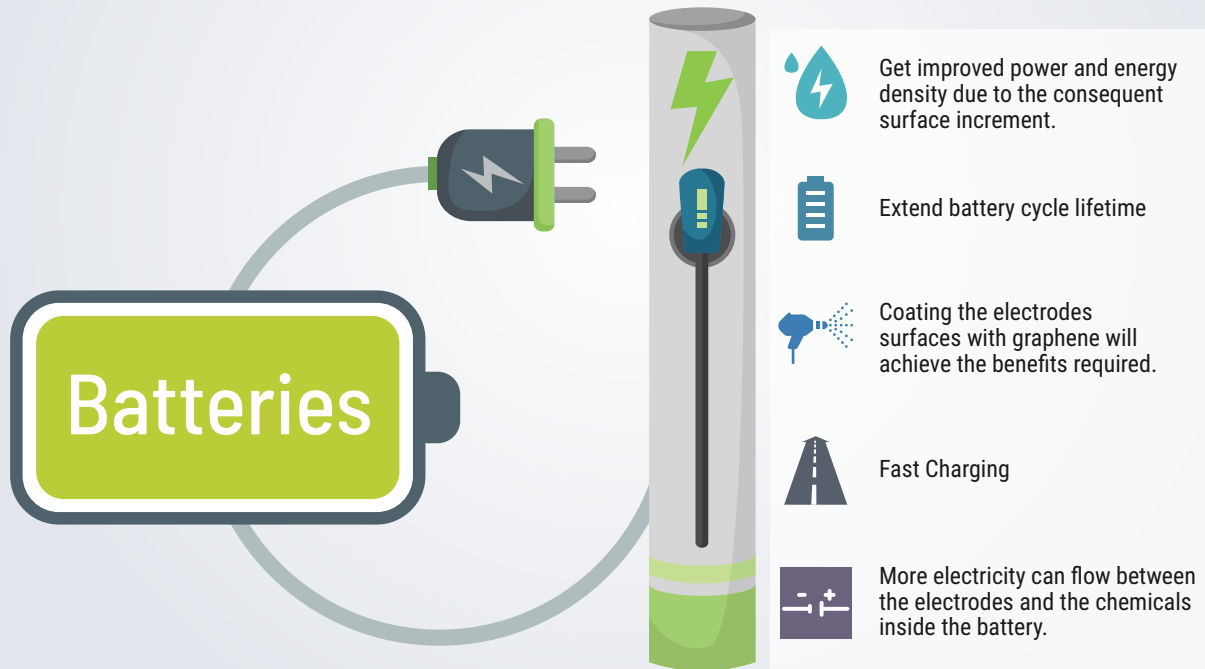


graphene which has high traction, tearing resistance and high ductility property which makes it an ideal additive for cement and concrete. This product achieves all the features that effect the durability of concrete, by improving the properties such us resistance to carbonates, chlorides and sulfates. Graphene additive will increase the life span of the structures dramatically. Effect of external climatic aggression will be reduced.

For example, if the current life span of structure is 30 years then by using our graphene as a additive will extend the life span 20 more years. Graphene also increase the flexibility Up to 40% more. The additives are not just made for building it can used for any construction such us bridges, tunnels, industrial plants and harbors.

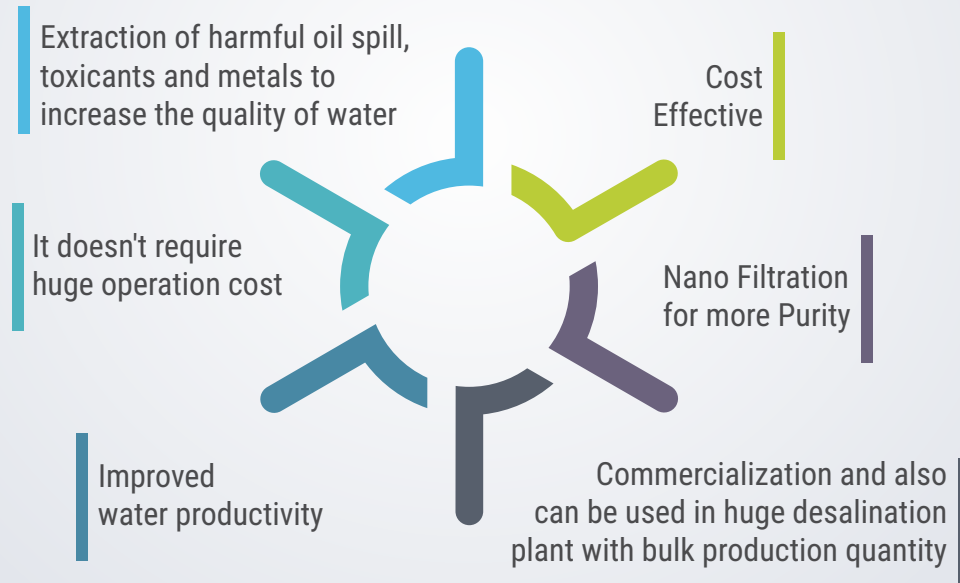
Adnano Technologies Pvt Ltd provides graphene, MWCNT or its variants for battery applications.

This carbon nano materials are one of the leading materials use to development the more efficient and environmentally friendly sources today in applications ranging from batteries, super capacitors and fuel cells to wind turbines and solar cells. with increased available power and decreased recharging time.



# Desalination

Graphene is very effective & helpful in the process of Desalination of sea water by making it more economical. Graphene based nano filter has the potential to cut these costs. Adnano Technologies provide stable graphene coated sand which is used in water filtration process also considered as the most efficient and effective due to low cost



# Anti COVID Nano Materials

1

We develop a customized  
Anti Covid Nano Materials

2

Our Innovative customized product  
will help people to fight with Covid-19  
and get out of this pandemic situation

3

Anti COVID properties  
for Longer Duration

4

Kills COVID-19 within 20 minutes

5

Easy to Use

6

Secure

7

Can be Applied on Many Surfaces

8

Used in Hospitals, COVID Ward,  
Appliances, Public Gathering Places,  
Transportations and much more













## Our Products

# Antiviral Products

Anti-Viral property enhanced nano material and  
PE Nanocomposite Film



<p><b>Graphene - A+</b></p> <p>ADG-A+</p> <p>Purity: ~99% APS: Dimension (X&amp;Y) &lt;1 µm / Layers 1-5 CAS No.: 7782-42-5</p>	<p><b>Graphene</b></p> <p>ADG</p> <p>Purity: ~99% APS: Dimension (X&amp;Y) ~5-10 µm/Layers 5-10 CAS No.: 7782-42-5</p>	<p><b>OH Functionalized Graphene</b></p> <p>ADG-OH</p> <p>Purity: ~99% APS: Dimension (X&amp;Y) ~5-10 µm/Layers 5-10 CAS No.: 7782-42-5</p>
<p><b>COOH Functionalized Graphene</b></p> <p>ADG-COOH</p> <p>Purity: ~99% APS: Dimension (X&amp;Y) ~5-10 µm/Layers 5-10 CAS No.: 7782-42-5</p>	<p><b>NH<sub>2</sub> Functionalized Graphene</b></p> <p>ADG-NH<sub>2</sub></p> <p>Purity: ~99% APS: Dimension (X&amp;Y) ~5-10 µm/Layers 5-10 CAS No.: 7782-42-5</p>	<p><b>Purified MWCNT</b></p> <p>ADP MWCNT</p> <p>Purity: ~99% APS: Diameter 10-20 nm / Length ~10 µm CAS No.: 7440-44-0</p>
<p><b>Multi Walled Carbon Nanotubes</b></p> <p>ADMW CNT</p> <p>Purity: ~97% APS: Diameter 10-20 nm / Length ~10 µm CAS No.: 7440-44-0</p>	<p><b>Hydroxyl Multiwall Carbon Nano Tubes</b></p> <p>ADMW CNT-OH</p> <p>Purity: ~99% APS: Diameter 10-20 nm / Length &gt;10 µm CAS No.: 308068-56-6</p>	<p><b>COOH Functionalized MWCNT</b></p> <p>ADMW CNT-COOH</p> <p>Purity: ~99% APS: Diameter 10-20 nm / Length &gt;10 µm CAS No.: 308068-56-6</p>
<p><b>NH<sub>2</sub> Functionalized MWCNT</b></p> <p>ADMW CNT-NH<sub>2</sub></p> <p>Purity: ~99% APS: Diameter ~5-15 nm / Length ~10 µm CAS No.: 308068-56-6</p>	<p><b>Graphene Oxide</b></p> <p>ADGO</p> <p>Purity: ~99% APS: Diameter ~5-10 µm / 1-3 Layers CAS No.: 126213-51-2</p>	<p><b>Reduce Graphene Oxide</b></p> <p>ADRG</p> <p>Purity: ~99% APS: Diameter ~5-10 µm / 1-3 Layers CAS No.: 126213-51-2</p>

<b>Aluminium Oxide Nano Particles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 1344-28-1	 AD-Al <sub>2</sub> O <sub>3</sub>	<b>Copper Oxide Nano Particles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 1317-38-0	 ADCuO	<b>Iron Oxide Nano Particles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 1317-61-9	 ADFe <sub>2</sub> O <sub>3</sub>
<b>Zirconium Dioxide Nanoparticles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 1314-23-4	 ADZrO <sub>2</sub>	<b>Magnesium Oxide Nano Particles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 1309-48-4	 ADMgO	<b>Silicon Dioxide Nano Particles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 7631-86-9	 ADSiO <sub>2</sub>
<b>Zinc Oxide Nano Particles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 1314-13-2	 ADZnO	<b>Titanium Dioxide Nano Particles</b>  Purity: ~99% APS: ~30-50 nm CAS No.: 13463-67-7	 ADTiO <sub>2</sub>	<b>Small Diameter SWNT</b>  Purity: >90% APS: Diameter~0.8 nm / Length ~0.4-2 μm CAS No.: 7440-44-0	 ADSSWNT
<b>Purified Small Diameter SWNT</b>  Purity: ~99% APS: Diameter~0.8 nm / Length ~0.4-2 μm CAS No.: 7440-44-0	 ADSSWNT	<b>Semiconducting SWCNT</b>  Purity: ~95% APS: Diameter~0.8 nm / Length ~0.4-2 μm CAS No.: 308068-56-6	 ADSCSWNT	<b>Metallic SWCNT</b>  Purity: ~95% APS: Diameter~0.8 nm / Length ~0.4-2 μm CAS No.: 308068-56-6	 ADMSWNT

## Graphene Dispersion in Water

ADG-H<sub>2</sub>O

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## Graphene Dispersion in IPA

ADG-IPA

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## Graphene Dispersion in DMF

ADG-DMF

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## Graphene Dispersion in Acetone

ADG-Acetone

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## Graphene Dispersion in DMA

ADG-DMA

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## MWCNT Dispersion in Water

ADMWCNT-H<sub>2</sub>O

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## MWCNT Dispersion in IPA

ADMWCNT-IPA

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## MWCNT Dispersion in DMF

ADMWCNT-DMF

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## MWCNT Dispersion in Acetone

ADMWCNT-Acetone

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## MWCNT Dispersion In DMA

ADMWCNT-DMA

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7440-44-0

## Graphene Oxide Dispersion In Water

ADGO-H<sub>2</sub>O

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 1034343-98-0

## Graphene Oxide Dispersion In IPA

ADGO-IPA

APS: Layers 1-3 / Thickness (Z) 5 µm  
CAS No.: 7782-42-5

<p><b>Graphene Oxide Dispersion In DMF</b></p> <p>ADGO-DMF</p> <p>APS: Layers 1-3 / Thickness (Z) 5 µm CAS No.: 7782-42-5</p>	<p><b>Graphene Oxide Dispersion in Acetone</b></p> <p>ADGO-Acetone</p> <p>APS: Layers 1-3 / Thickness (Z) 5 µm CAS No.: 7782-42-5</p>	<p><b>Graphene Oxide Dispersion In DMA</b></p> <p>ADGO-DMA</p> <p>APS: Layers 1-3 / Thickness (Z) 5 µm CAS No.: 7782-42-5</p>
<p><b>Zinc Sulfide Nano Particles</b></p> <p>ADZnS</p> <p>APS: ~ 1- 10 nm CAS No.: 1314-98-3</p>	<p><b>Cadmium Sulfide Nano Particles</b></p> <p>ADCdS</p> <p>APS: ~30-50 nm CAS No.: 1306-23-6</p>	<p><b>Graphene Conductive Ink for Screen Printing</b></p> <p>ADGNP30</p> <p>APS: Thickness: 2-5 nm, length: ~ 5 micron CAS No.: 7782-42-5</p>
<p><b>CNT Conductive Ink/Paste for Screen Printing</b></p> <p>ADCNT30</p> <p>APS: Thickness: 2-5 nm, Length: ~ 5 micron CAS No.: 7782-42-5</p>	<p><b>Graphite Conductive Ink/Paste for Screen Printing</b></p> <p>ADGRA60</p> <p>APS: ~ 10-50 microns CAS No.: 7782-42-5</p>	<p><b>Carbon Conductive Ink/Paste for Screen Printing</b></p> <p>ADCAR60</p> <p>APS: ~ 10-50 microns CAS No.: 7782-42-5</p>

# Countries we are Exporting

- ♦ USA
- ♦ Germany.
- ♦ UK
- ♦ Italy
- ♦ Spain
- ♦ France
- ♦ Switzerland
- ♦ Sweden
- ♦ Brazil
- ♦ Singapore
- ♦ Thailand
- ♦ Australia
- ♦ Hong Kong
- ♦ Taiwan
- ♦ Canada
- ♦ South Korea
- ♦ Mexico
- ♦ Greece
- ♦ Malaysia
- ♦ Saudi Arabia
- ♦ UAE
- ♦ Kuwait
- ♦ Qatar
- ♦ Sri lanka
- ♦ Turkey
- ♦ Myanmar
- ♦ Columbia
- ♦ Nigeria





# Our Distributors

## **NANO DISTRITO**

Authorised Distributor for  
Mexico and South America

## **NANO DISTRITO**

Calle Arquitecto Joaquín A. , Mora 5441,  
Empleados SFEO, Monterrey,  
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