Adding Nano In Life
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.

www.ad-nanotech.com
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 sp2 bonded carbon atoms that are densely packed in a honeycomb crystal lattice.

Properties

- Flexible
- World Strongest Material
- More Electrically Conductive
- Transparent than Glass
- Lighter than Feather
- Very high Thermally Conductive

Functionalization of Graphene

Graphene Oxide

Reduces Graphene Oxide Dispersion in various solvents
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- **More Electrically Conductive**
- **Very high Thermally Conductive**
- **Lighter than Feather**
- **Transparent than Glass**
- **Flexible**

**Functionalization of Graphene**

- **Reduces Graphene Oxide**
- **Dispersion in various solvents**

**Graphene Polymer Masterbatch**

[Visit us at www.ad-nanotech.com](http://www.ad-nanotech.com)
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
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- **Extremely High Electrical Conductivity**
- **Very good thermal Conductivities**
- **Large aspect Ratios**
- **Outstanding Mechanical Properties**

**PROPERTIES**

**Ultra Pure Multiwalled Carbon Nanotubes**

**MWCNT Dispersion in various Solvents**

**Various Functionalization MWCNT**

**MWCNT Polymer Master Batch**

We Make

www.ad-nanotech.com
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

<table>
<thead>
<tr>
<th>ZnO</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Purity</td>
<td>99.9%</td>
</tr>
<tr>
<td>Average Particle Size</td>
<td>30-80 nm</td>
</tr>
<tr>
<td>SSA</td>
<td>80-110 m²/g</td>
</tr>
<tr>
<td>True Density</td>
<td>4.97 g/cm³</td>
</tr>
</tbody>
</table>

Advantages:
- Highly Versatile
- Anti-Microbial Properties
- Very Good Chemical Stability
- High Thermal Resistance
- High UV-blocking Properties
- Improve Flexural Strength

Applications:
- Personal Care Products
- Biomedical Applications
- Self-compacting Concrete
- Sensors
- Solar Cells
- Paints and Coatings

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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.

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<tr>
<td>Average Particle Size</td>
<td>30-80 nm</td>
</tr>
<tr>
<td>SSA</td>
<td>10-20 m2/g</td>
</tr>
<tr>
<td>True Density</td>
<td>6.4 g/cm3</td>
</tr>
</tbody>
</table>
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.

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<th>True Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Anti Microbial Properties</td>
<td>99.9%</td>
<td>30-80 nm</td>
<td>10-20 m²/g</td>
<td>6.4 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Unique Magnetic Properties</td>
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<tr>
<td>Have Semiconducting Property</td>
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<tr>
<td>Super Thermal Conductivity</td>
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<tr>
<td>Photovoltaic Properties</td>
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<tr>
<td>High Stability</td>
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<td>Solar</td>
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<tr>
<td>Anti-Microbial Products</td>
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<tr>
<td>Sensors</td>
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<td>Solar</td>
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</tr>
</tbody>
</table>

Advantages

- High Anti Microbial Properties
- Super Thermal Conductivity
- Photovoltaic Properties
- Unique Magnetic Properties
- Have Semiconducting Property
- High Stability

Applications

- Anti-Microbial Products
- Sensors
- Batteries
- Electronic
- Agriculture Industry
- Solar

www.ad-nanotech.com
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

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<td>99.9%</td>
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<tr>
<td>Average Particle Size</td>
<td>30-80 nm</td>
</tr>
<tr>
<td>SSA</td>
<td>30-50 m²/g</td>
</tr>
<tr>
<td>True Density</td>
<td>3.58 g/cm³</td>
</tr>
</tbody>
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<td>3.58 g/cm³</td>
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</table>

Advantages

- High Hardness
- High Melting Point
- Good Antibacterial Property
- Produces reactive Oxygen Species (ROS)
- Dehydrating Agent
- High Electric Insulator

Applications

- Paints
- Electronic
- Adhesive
- Agriculture Industry
- Antennas
- Fire Retardant
Silicon Dioxide Nano Particle

We manufacture 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

<table>
<thead>
<tr>
<th>SiO$_2$</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity</td>
<td>99.9%</td>
</tr>
<tr>
<td>Average Particle Size</td>
<td>30-80 nm</td>
</tr>
<tr>
<td>SSA</td>
<td>130-1500 m$^2$/g</td>
</tr>
<tr>
<td>True Density</td>
<td>2.2 g/cm$^3$</td>
</tr>
</tbody>
</table>
We manufacture SiO$_2$ nanoparticles by the sol-gel method in bulk quantity with multiple points of quality check to get the purest form of silicon dioxide nanopowder.

**Specifications**

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<tr>
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<td>130-1500 m$^2$/g</td>
<td>2.2 g/cm$^3$</td>
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</table>

**Advantages**

- High Thermal Conductivity
- Improve Mechanical Strength
- Large Specific Surface area
- Strong Surface Adsorption
- Large Surface Energy
- Anti-Microbial Properties
- Strong Surface Adsorption
- Large Surface Energy
- Anti-Microbial Properties

**Applications**

- Polymer Nano Composite
- Textile Industry
- Biomedical Applications
- Paints and Inks
- Agriculture Industry
- Cement

[www.ad-nanotech.com](http://www.ad-nanotech.com)
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

<table>
<thead>
<tr>
<th>$\text{Al}_2\text{O}_3$</th>
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<td>Purity</td>
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<tr>
<td>Average Particle Size</td>
<td>30-80 nm</td>
</tr>
<tr>
<td>SSA</td>
<td>120-140 m$^2$/g</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>02-0.4 g/cm$^3$</td>
</tr>
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</table>

Applications:
- In paints & coatings sector
- Polymer Nanocomposite
- Automotive Industries
- Ceramics
- Cosmetics
- Oil & gas

www.ad-nanotech.com
Aluminium Oxide

We manufacture Al₂O₃ nanoparticles by the solgel method in bulk quantity with multi-point quality check to get the Purest form of Al₂O₃ nanopowder.

Specifications

<table>
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<tr>
<th>Description</th>
<th>Purity</th>
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<td></td>
<td>99.9%</td>
<td>30-80 nm</td>
<td>120-140 m²/g</td>
<td>0.2-0.4 g/cm³</td>
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Advantages

- High Thermal Properties
- Fire Retardancy
- Chemically Stable
- Anti-Corrosive
- Improve Mechanical Properties
- Electrical Insulating

Applications

- In paints & coatings sector
- Polymer Nanocomposite
- Automotive Industries
- Ceramics
- Cosmetics
- Oil & gas

www.ad-nanotech.com
Iron Oxide Nano Particle

We manufacture Fe₂O₃ nanoparticles by solgel method in bulk quantity with multi-point quality check to get the purest form of Iron oxide nanopowder.

Specifications

<table>
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<th>Fe₂O₃</th>
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<td>Average Particle Size</td>
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<tr>
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<td>70-100 m²/g</td>
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Iron Oxide Nano Particle

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Advantages

- Superparamagnetic
- Biocompatibility
- Anti-Microbial
- Nanoadjuvant
- Catalytic
- Anti-Microbial
- Biocompatibility
- Nanoadjuvant
- High Thermal Conductivity

Applications

- Superparamagnetic
- Biocompatibility
- Catalytic
- Anti-Microbial
- Nanoadjuvant
- High Thermal Conductivity

- Sensors
- Agriculture Industry
- Biomedical Applications
- Coating
- Batteries
- Electronics

www.ad-nanotech.com
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 as:

- Polymers
- Construction
- Electronics
- Anti-Microbial
- Paints & Coating
- Batteries
- Textiles
- Desalination

www.ad-nanotech.com
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.

Graphene based Materbatch in the Matrix polymer

- **Mechanical Properties**
- **Electrical Properties**
- **Thermal Properties**

Enhance

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Graphene Epoxy Nano Composite

Graphene Epoxy nanocomposites provide enhancement of mechanical strength, electrical conductivity, thermal conductivity, and thermal stability. This can be used in automotive, electronics, aerospace, and other sectors.

We manufacture two-component, non-reactive Epoxy graphene composites depending on their applications, usage, and properties.

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.

We manufacture homogenous dispersion that results in better load transfer to the filler material, resulting in improved mechanical properties.

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

Various conductive paints can be utilized due to its excellent electrical and thermal conductivity.

Graphene enables a wide range of functional paints, suitable 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.

High Performance Adhesives enabled by graphene’s high adhesion property

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

High Performance Adhesives

Anti-Corrosive Paint/Coating

Various conductive paints

Graphene enables

Graphene's incorporation
Graphene Epoxy Nano Composite

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High Performance Adhesives enabled by graphene's high adhesion property

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

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 as 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 as bridges, tunnels, industrial plants and harbors.

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.

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.

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.

diagram:

1. Cement
2. 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.
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www.ad-nanotech.com

Graphene Epoxy Coating/Paint for Anticorrosion

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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.

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

- Extraction of harmful oil spill, toxicants and metals to increase the quality of water
- Cost Effective
- Nano Filtration for more Purity
- It doesn't require huge operation cost
- Improved water productivity
- Commercialization and also can be used in huge desalination plant with bulk production quantity

www.ad-nanotech.com
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
We develop a customized Anti Covid Nano Materials. Our innovative customized product will help people to fight with Covid-19 and get out of this pandemic situation.

Anti COVID properties for longer duration:
- Kills COVID-19 within 20 minutes
- Easy to use
- Secure
- Can be applied on many surfaces
- 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

We Provide:
- Antiviral Nano Powder
- Antiviral Nano Dispersion
- Antiviral Polymer Adhesive Sheet
- Antiviral Apron
- Antiviral Curtains
- Antiviral Bedcover

www.ad-nanotech.com
<table>
<thead>
<tr>
<th>Product Description</th>
<th>Purity</th>
<th>APS Hydrodynamic Diameter</th>
<th>APS Layers/nm</th>
<th>CAS Number</th>
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<tbody>
<tr>
<td>Graphene - A+</td>
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<td>Dimension (X&amp;Y) &lt;1 µm</td>
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<td>Graphene</td>
<td>~99%</td>
<td>Dimension (X&amp;Y) ~5-10 µm</td>
<td>Layers 5-10</td>
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<td>Length &gt;10 µm</td>
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<td>Purified Small Diameter SWNT</td>
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<td>dispersion</td>
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<td>layers</td>
<td>thickness (Z)</td>
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<td>Graphene Oxide Dispersion In Water</td>
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<td>5 µm</td>
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<td>Graphene Oxide Dispersion In IPA</td>
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<td>5 µm</td>
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<td>Graphene Dispersion In DMA</td>
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<td>5 µm</td>
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<td>MWCNT Dispersion In Water</td>
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<td>5 µm</td>
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<td>5 µm</td>
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<td>Layers 1-3 / Thickness (Z) 5 µm</td>
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<tr>
<td>Zinc Sulfide Nano Particles</td>
<td>ADZnS</td>
<td>~ 1-10 nm</td>
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<td>CNT Conductive Ink /Paste for Screen Printing</td>
<td>ADCNT30</td>
<td>Thickness: 2-5 nm, Length: ~ 5 micron</td>
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<tr>
<td>Graphene Oxide Dispersion in Acetone</td>
<td>ADGO-Acetone</td>
<td>Layers 1-3 / Thickness (Z) 5 µm</td>
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<td>Cadmium Sulfide Nano Particles</td>
<td>ADCdS</td>
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<td>Graphene Conductive Ink/Paste for Screen Printing</td>
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<td>Layers 1-3 / Thickness (Z) 5 µm</td>
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<td>Layers 1-3 / Thickness (Z) 5 µm</td>
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<td>Carbon Conductive Ink/Paste for Screen Printing</td>
<td>ADCAR60</td>
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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
- Malaysia
- Columbia
- Nigeria
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Authorised Distributor for Mexico and South America

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www.distritonano.com

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graphene@martankship.com
www.martankship.com

MLSTCO.,
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