VCN Materials

VCN Materials Co. is introduced with relying on the experience of its management team on synthesis of carbon-based nanostructures. VCN Materials Co. can employ novel technical knowledge consist with the latest successes and achievements to provide scientific and competitive environment in terms of global marketing.

Vira Carbon Nano Materials Co., Ltd.

Producer and Supplier of Laboratory Grade Nanomaterials

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Products includes five main branches e.g. carbon nanotubes and nanofibers, graphene and graphene oxide, metal and metal oxide nanoparticles, carbon nanotubes dispersions, and graphene dispersions. VCN Materials Co., Ltd. presents pristine nanomaterials and different Amine-functionalized carbon nanomaterials, hydroxyl-functionalized carbon nanomaterials, carboxyl-functionalized carbon nanomaterials at different grades. Also, this company is able to functionalize all the carbon nanomaterials with different functional groups. Moreover, different stable water-, ethylene glycol-, methanol-, ethanol-, and NMP-based suspensions including various above-mentioned carbon nanostructures are other products of this company and can be kindly presented to the customers. Overall, our products includes 65 solid powder samples e.g. graphene-based materials, carbon nanotubes-based materials, metal and metal oxides materials, etc. and 215 stable dispersions.

Company slogan: "Being honest is the most valuable policy of VCN Materials"

Introduction to Nanotechnology and our Nanomaterials

- Nanostructured materials have dimensions typically ranging from 1 to 100 nm. They can be classified into the following dimensional types:
- Zero dimensional (0D): nanospherical particles e.g. Metal oxides nanoparticles.
- One dimensional (1D): nanotubes e.g. SWCNT, MWCNT, DWCNT, etc.
- Two dimensional (2D): nanoflakes and sheets e.g. Graphene, GNP, etc.
- Three dimensional (3D): bulk nanostructured materials, consisting of nanometer-sized grains or nanoporous particles e.g., highly crumpled graphene, etc.
- Currently, our company is able to provide our customers with nanostructured (1 nm to 100 nm) and ultrafine-structured (0.1 μm to 5 μm) powder materials in the form of:
- Spherical or near-spherical
- Nanotubes
- Nanoflakes and sheets
- Doped
- Functionalized
- Dispersions

VCN Materials

Senior managers of VCN Materials:

Dr. Mehdi Shanbedi
Managing Director

Dr. Ahmad Amiri
Chairman of the Board

Iran Address: 302, Third floor, Science and Technology Incubator, Persian Gulf University Intersection, Mahini Street, Bushehr, Iran.
Postal code: 7516869768
Telephone and Fax: +987733444665
Mobile: +989171731048
Email: shanbedi@vcnmaterials.com, mehdishanbedi@gmail.com
Factory Address: Workshop Complex of Science and Technology Park, Bushehr Special Economic Zone, Bushehr, Iran.

Malaysia Address: B10-12-, Scott Garden, Klang Lama, Kuala Lumpur, Malaysia.
Postal code: 58000
Tel.: +601111406988, +601111902599
Email: amiri@vcnmaterials.com, ahm.amiri@gmail.com
Online working hours: 24 hours a day, 7 days a week

Contact Us:

www.vcnmaterials.com

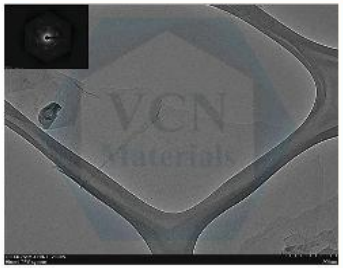
info@vcnmaterials.com, sales@vcnmaterials.com, tech@vcnmaterials.com, shipping@vcnmaterials.com

@vcnmaterials

vcnmaterials

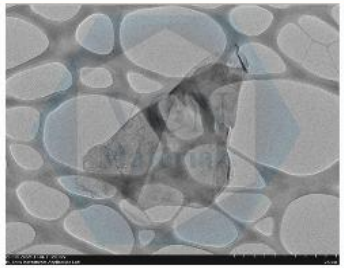
ah.am2227, meh.shan, vcn materials

Graphene and Carbon nanotubes



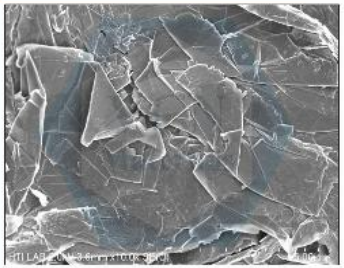
Mono Layer Graphene

Purity: +99%
Diameter: 2-10 µm
Thickness: 1-2 nm
SSA: 1000-1500 m^2/g



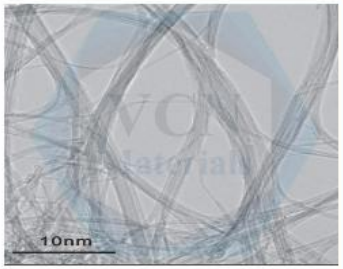
Graphene Nanoplatelets (GNP)

Purity: 99.5%
Diameter: 1-20 µm
Thickness: <40 nm
SSA: 120-150 m^2/g



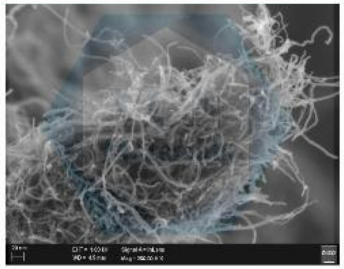
Graphene Nanoplatelets (GNP)

Purity: 95%
Diameter: 5-20 µm
Thickness: 32 nm
SSA: 150 m^2/g



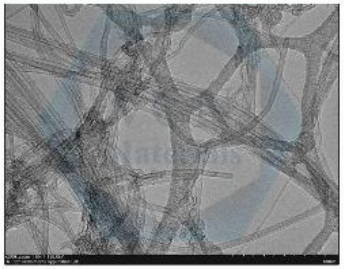
Single-Walled Carbon Nanotubes (SWNTs)

Purity: 91%
Diameter: 2 nm
Length: 5-20 µm
SSA: 450 m^2/g



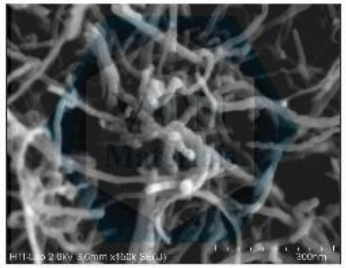
Single-Walled Carbon Nanotubes (SWNTs)

Purity: 95%
Diameter: 1-2 nm
Length: 5-30 µm
SSA: 1075 m^2/g



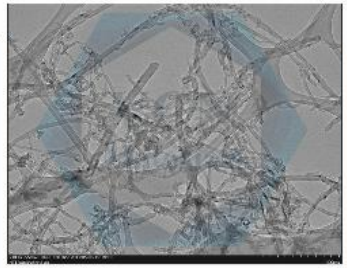
Double-Walled Carbon Nanotubes (DWNTs)

Purity: 80%
Diameter: 2-4 nm
Length: ~50 µm
SSA: 350 m^2/g



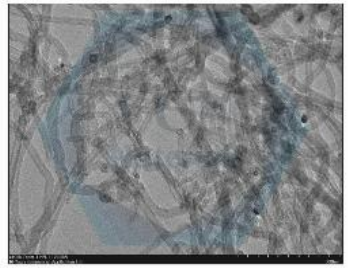
Multi-Walled Carbon Nanotubes (MWNTs)

Purity: +95%
Diameter: 8-20 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



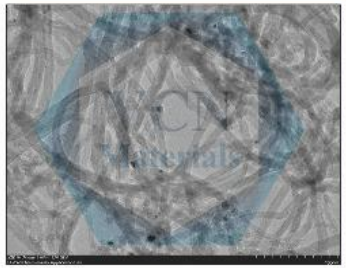
Multi-Walled Carbon Nanotubes (MWNTs)

Purity: +95%
Diameter: 20-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



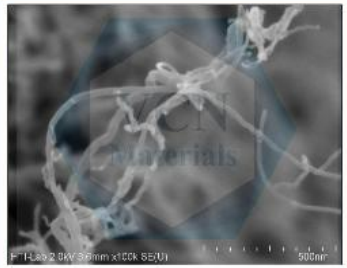
Multi-Walled Carbon Nanotubes (MWNTs)

Purity: 99%
Diameter: 10-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



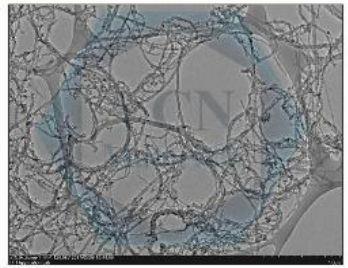
Multi-Walled Carbon Nanotubes (MWNTs)

Purity: 99%
Diameter: 40-60 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



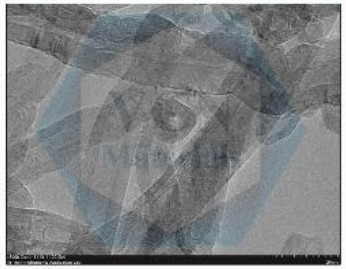
Multi-Walled Carbon Nanotubes (MWNTs)

Purity: +95%
Diameter: 8-20 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g



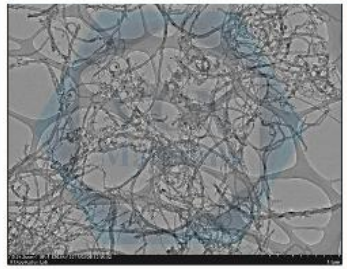
Multi-Walled Carbon Nanotubes (MWNTs)

Purity: +95%
Diameter:20-30 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g



Multi-Walled Carbon Nanotubes (MWNTs)

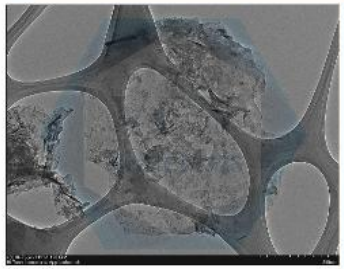
Purity: 99%
Diameter: 10-30 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g



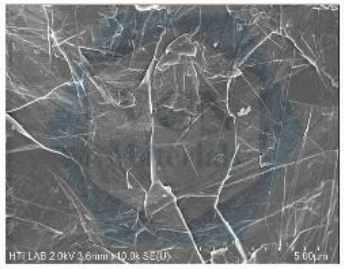
Multi-Walled Carbon Nanotubes (MWNTs)

Purity: 99%
Diameter: 40-60 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

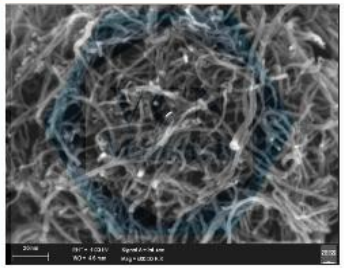
Graphene and Carbon nanotubes functionalized with Carboxyl Group



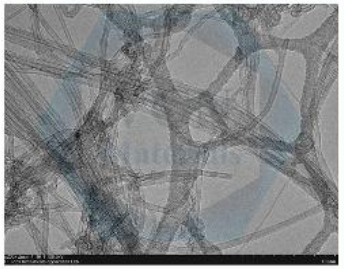
Graphene Nanoplatelets (GNP)-Carboxyl (GNP-COOH)
Purity: 99.5%
Diameter: 1-20 µm
Thickness: <40 nm
SSA: more than 150 m^2/g



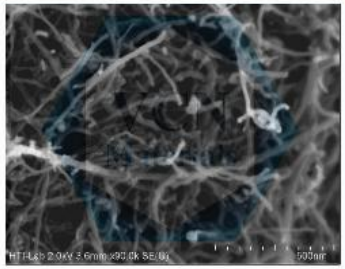
Graphene Nanoplatelets (GNP)-Carboxyl (GNP-COOH)
Purity: 95%
Diameter: 5-20 µm
Thickness: 32 nm
SSA: more than 150 m^2/g



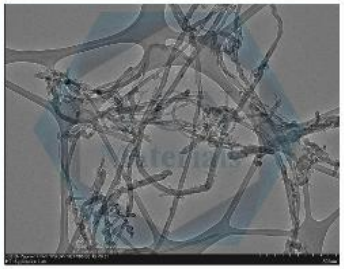
Single-Walled Carbon Nanotubes-Carboxyl (SWNTs-COOH)
Purity: 95% and 91%
Diameter: 1-2 nm
Length: 5-30 µm
SSA: 1075 m^2/g



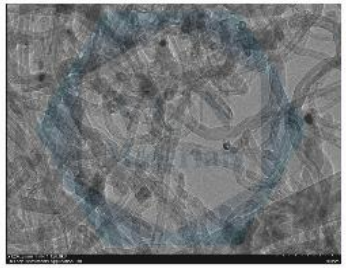
Double-Walled Carbon Nanotubes-Carboxyl (DWNTs-COOH)
Purity: 80%
Diameter: 2-4 nm
Length: ~50 µm
SSA: more than 350 m^2/g



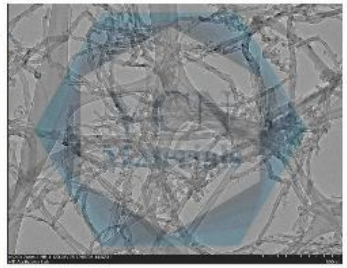
Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: +95%
Diameter: 8-20 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



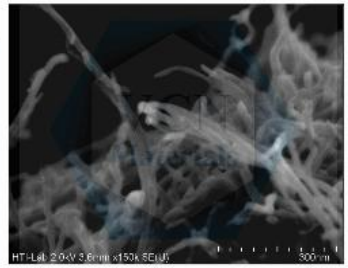
Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: +95%
Diameter: 20-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



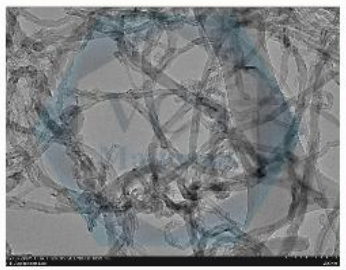
Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: 99%
Diameter: 10-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



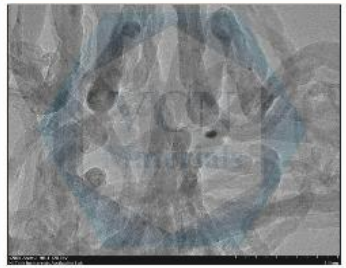
Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: 99%
Diameter: 40-60 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



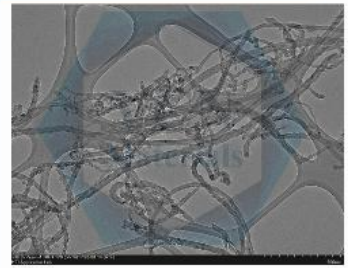
Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: +95%
Diameter: 8-20 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g



Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: +95%
Diameter:20-30 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

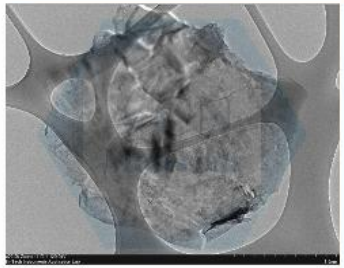


Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: 99%
Diameter: 10-30 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

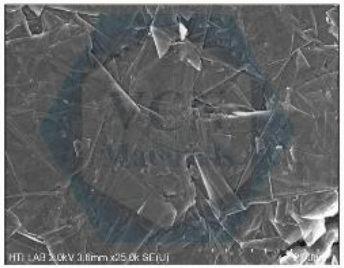


Multi-Walled Carbon Nanotubes-Carboxyl (MWNTs-COOH)
Purity: 99%
Diameter: 40-60 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

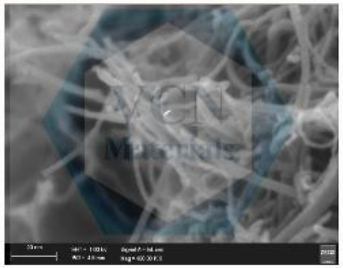
Graphene and Carbon nanotubes functionalized with Hydroxyl Group



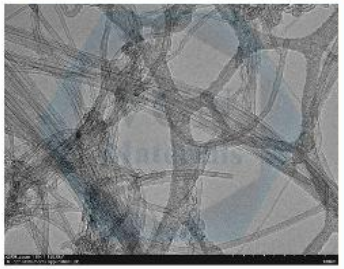
Graphene Nanoplatelets Hydroxyl (GNP-OH)
Purity: 99.5%
Diameter: 1-20 µm
Thickness: <40 nm
SSA: more than 150 m^2/g



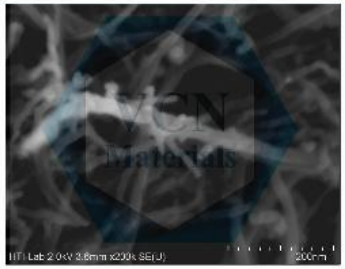
Graphene Nanoplatelets Hydroxyl (GNP-OH)
Purity: 95%
Diameter: 5-20 µm
Thickness: 32 nm
SSA: more than 150 m^2/g



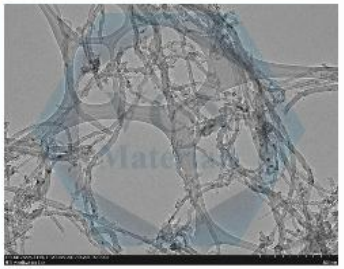
Single-Walled Carbon Nanotubes Hydroxyl (SWNTs-OH)
Purity: 95% and 91%
Diameter: 1-2 nm
Length: 5-30 µm
SSA: 1075 m^2/g



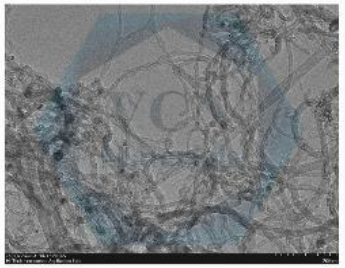
Double-Walled Carbon Nanotubes – Hydroxyl (DWNTs-OH)
Purity: 80%
Diameter: 2-4 nm
Length: ~50 µm
SSA: more than 350 m^2/g



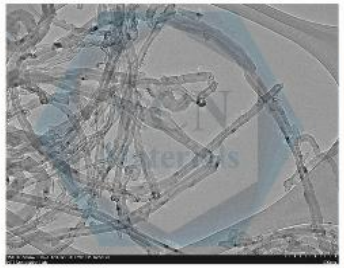
Multi-Walled Carbon Nanotubes– Hydroxyl (MWNTs-OH)
Purity: +95%
Diameter: 8-20 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



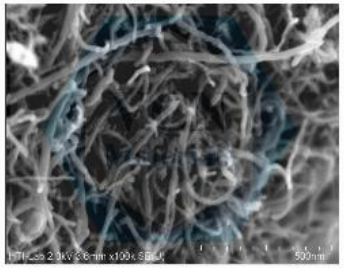
Multi-Walled Carbon Nanotubes– Hydroxyl (MWNTs-OH)
Purity: +95%
Diameter: 20-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



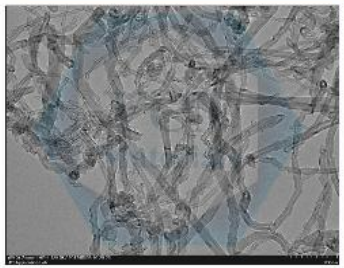
Multi-Walled Carbon Nanotubes– Hydroxyl (MWNTs-OH)
Purity: 99%
Diameter: 10-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



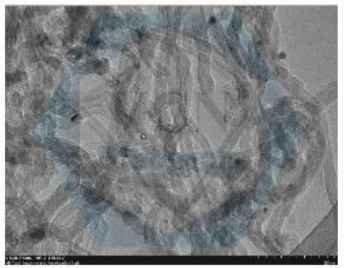
Multi-Walled Carbon Nanotubes– Hydroxyl (MWNTs-OH)
Purity: 99%
Diameter: 40-60 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



Multi-Walled Carbon Nanotubes– Hydroxyl (MWNTs-OH)
Purity: +95%
Diameter: 8-20 nm
Short Length: 1-2 µm
SSA: 120-170 m2/g



Multi-Walled Carbon Nanotubes– Hydroxyl (MWNTs-OH)
Purity: +95%
Diameter:20-30 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g



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Purity: 99%
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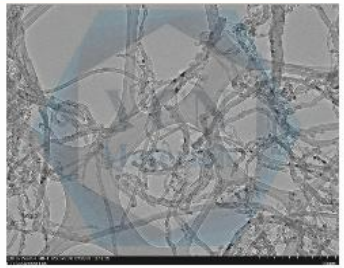
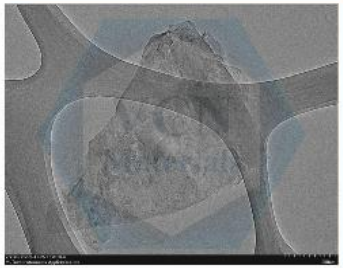
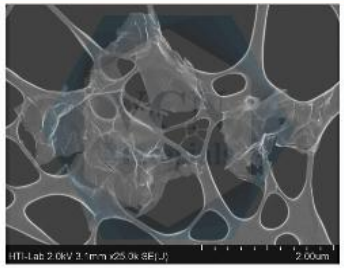


Multi-Walled Carbon Nanotubes– Hydroxyl (MWNTs-OH)
Purity: 99%
Diameter: 40-60 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

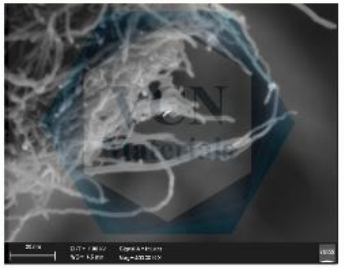
Graphene and Carbon nanotubes functionalized with Amine Group



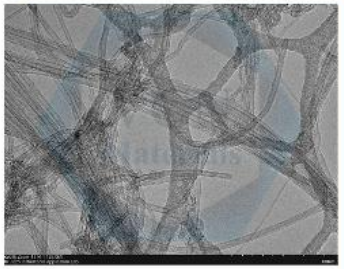
Graphene Nanoplatelets Amine (GNP-NH_2)
Purity: 99.5%
Diameter: 1-20 µm
Thickness: <40 nm
SSA: more than 150 m^2/g



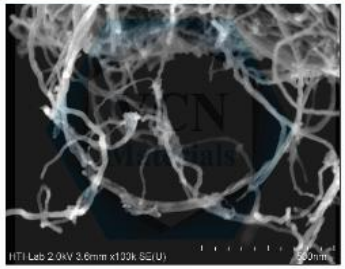
Graphene Nanoplatelets Amine (GNP-NH_2)
Purity: 95%
Diameter: 5-20 µm
Thickness: 32 nm
SSA: more than 150 m^2/g



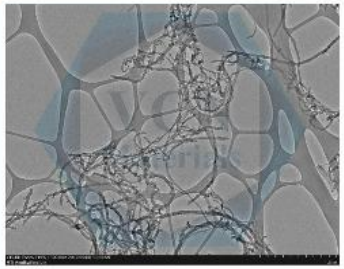
Single-Walled Carbon Nanotubes-Amine (SWNTs-NH_2)
Purity: 95% and 91%
Diameter: 1-2 nm
Length: 5-30 µm
SSA: 1075 m^2/g



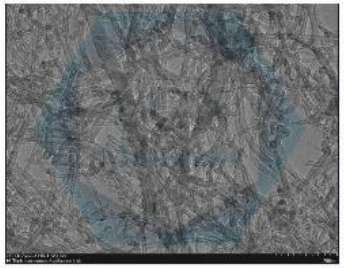
Double-Walled Carbon Nanotubes-Amine (DWNTs-NH_2)
Purity: 80%
Diameter: 2-4 nm
Length: ~50 µm
SSA: more than 350 m^2/g



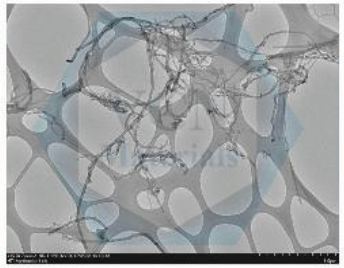
Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: +95%
Diameter: 8-20 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



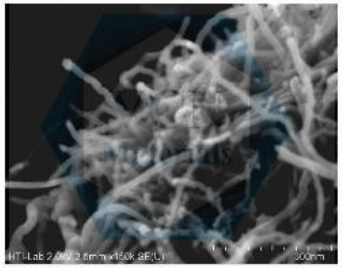
Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: +95%
Diameter: 20-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g



Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: 99%
Diameter: 10-30 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g

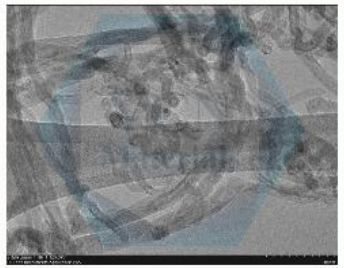


Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: 99%
Diameter: 40-60 nm
Regular Length: 5-10 µm
SSA: more than 200 m^2/g

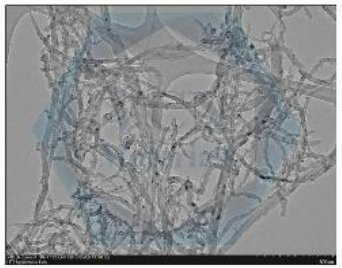


Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: +95%
Diameter: 8-20 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: +95%
Diameter:20-30 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

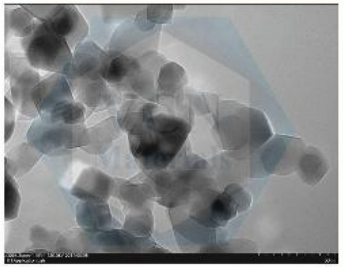


Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: 99%
Diameter: 10-30 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g



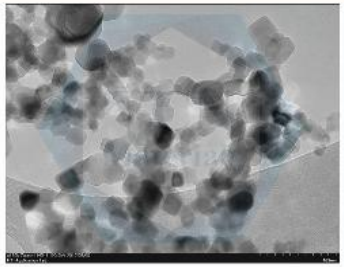
Multi-Walled Carbon Nanotubes-Amine (MWNTs-NH_2)
Purity: 99%
Diameter: 40-60 nm
Short Length: 1-2 µm
SSA: 120-170 m^2/g

Metal Oxide Nanopowders



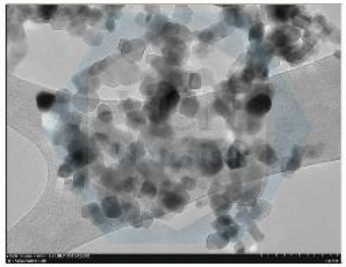
Aluminum Oxide (Al_2O_3-Gamma)

Purity: 99.99%
Diameter: 20 nm
SSA: 130-220 m^2/g
Density: 3.5-3.9 g/cm^3



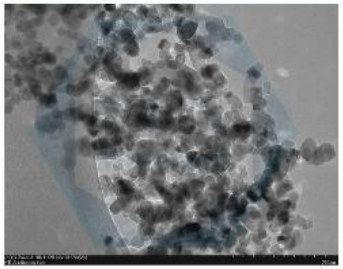
Iron Oxide (Fe_3O_4)

Purity: 99.8%
Diameter: 20-40 nm
SSA: 60-70 m^2/g
Density: 4.8-5.1 g/cm^3



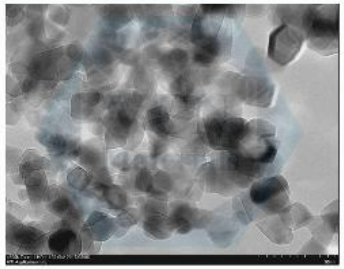
Iron Oxide (Fe_2O_3-Alpha)

Purity: 99.8%
Diameter: 20-30 nm
SSA: 80-100 m^2/g
Density: 5.24 g/cm^3



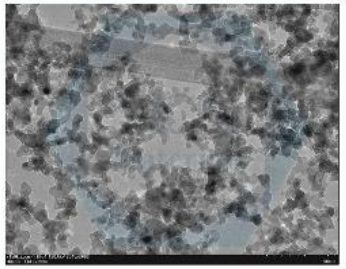
Titanium Oxide (TiO_2-Anatase)

Purity: 99.9%
Diameter: 30-50 nm
SSA: 100-220 m^2/g
Density: 4.23 g/cm^3



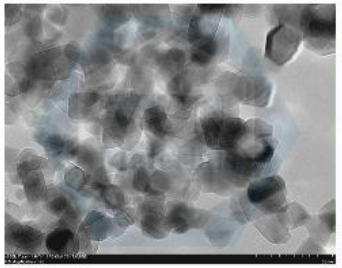
Titanium Oxide (TiO_2-Rutile)

Purity: 99.9%
Diameter: 30-50 nm
SSA: 50-60 m^2/g
Density: 4.23 g/cm^3



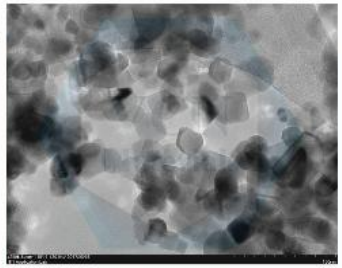
Zinc Oxide (ZnO)

Purity: 99.8%
Diameter: 20-30 nm
SSA: 50-70 m^2/g
Density: 5.6 g/cm^3



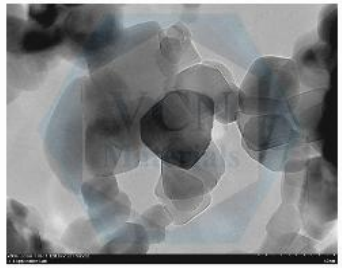
Silicon Oxide (SiO_2-Hydrophobic)

Purity: 99.8%
Diameter: 20-30 nm
SSA: 200±25 m^2/g
Density: 2.17-2.66 g/cm^3



Silicon Oxide (SiO_2-Hydrophilic)

Purity: 99.8%
Diameter: 20-30 nm
SSA: 100±25 m^2/g
Density: 2.17-2.66 g/cm^3



Copper Oxide (CuO)

Purity: +99%
Diameter: 30-50 nm
SSA: 40-50 m^2/g
Density: 6 g/cm^3

Graphene and Carbon Nanotubes Dispersion
Base fluid: Water, Ethylene Glycol, Methanol, Ethanol, NMP

Mono Layer Graphene Dispersions

Weight Concentration: 0.1% to 0.5%
Additives: Mono Layer Graphene
Purity of Additives: +99%
Thickness of Additives: 1-2 nm
Diameter of Additives: 2-10 µm

Graphene Nanoplatelets (GNP) Dispersions

Weight Concentration: 0.1% to 1%
Additives: GNP
Purity of Additives: 99.5%
Thickness of Additives: <40 nm
Diameter of Additives: 1-20 µm

Single-Walled Carbon Nanotubes (SWNTs) Dispersions

Weight Concentration: 0.1% to 0.5%
Additives: SWNT
Purity of Additives: 60, 91 and 95%
Diameter of Additives: 1-2 nm
Length of Additives: 5-20 µm

Double-Walled Carbon Nanotubes (DWNTs) Dispersions

Weight Concentration: 0.1% to 0.5%
Additives: DWNT
Purity of Additives: 60 and 80%
Diameter of Additives: 2-4 nm
Length of Additives: ~50 µm

Multi-Walled Carbon Nanotubes (MWNTs) Dispersions

Weight Concentration: 0.5% to 2%
Additives: MWNT
Purity of Additives: +95, 99 and 99.9%
Diameter of Additives: 8-20 nm, 10-30nm, 20-30nm and 40-60nm
Length of Additives: 1-2 µm and 5-10 µm

Graphene and Carbon Nanotubes functionalized with Carboxyl Group Dispersion
Base fluid: Water, Ethylene Glycol, Methanol, Ethanol, NMP

Graphene Nanoplatelets–Carboxyl (GNP-COOH) Dispersions

Weight Concentration: 0.1% to 1%
Additives: GNP-COOH
Purity of Additives: 99.5%
Thickness of Additives: <40 nm
Diameter of Additives: 1-20 µm

Single-Walled Carbon Nanotubes–Carboxyl (SWNTs-COOH) Dispersions

Weight Concentration: 0.1% to 0.5%
Additives: SWNT-COOH
Purity of Additives: 60, 91 and 95%
Diameter of Additives: 1-2 nm
Length of Additives: 5-20 µm

Double-Walled Carbon Nanotubes–Carboxyl (DWNTs-COOH) Dispersions

Weight Concentration: 0.1% to 0.5%
Additives: DWNT-COOH
Purity of Additives: 60 and 80%
Diameter of Additives: 2-4 nm
Length of Additives: ~50 µm

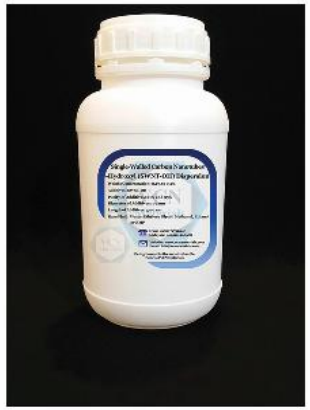
Multi-Walled Carbon Nanotubes–Carboxyl (MWNTs-COOH) Dispersions

Weight Concentration: 0.5% to 2%
Additives: MWNT-COOH
Purity of Additives: +95, 99 and 99.9%
Diameter of Additives: 8-20 nm, 10-30nm, 20-30nm and 40-60nm
Length of Additives: 1-2 µm and 5-10 µm

Graphene and Carbon Nanotubes functionalized with Hydroxyl Group Dispersion
Base fluid: Water, Ethylene Glycol, Methanol, Ethanol, NMP

Graphene Nanoplatelets–Hydroxyl (GNP-OH) Dispersions

Weight Concentration: 0.1% to 1%
Additives: GNP-OH
Purity of Additives: 99.5%
Thickness of Additives: <40 nm
Diameter of Additives: 1-20 µm



Single-Walled Carbon Nanotubes–Hydroxyl (SWNTs-OH) Dispersions

Weight Concentration: 0.1% to 0.5%
Additives: SWNT-OH
Purity of Additives: 60, 91 and 95%
Diameter of Additives: 1-2 nm
Length of Additives: 5-20 µm

Double-Walled Carbon Nanotubes–Hydroxyl (DWNTs-OH) Dispersions

Weight Concentration: 0.1% to 0.5%
Additives: DWNT-OH
Purity of Additives: 60 and 80%
Diameter of Additives: 2-4 nm
Length of Additives: ~50 µm

Multi-Walled Carbon Nanotubes–Hydroxyl (MWNTs-OH) Dispersions

Weight Concentration: 0.5% to 2%
Additives: MWNT-OH
Purity of Additives: +95, 99 and 99.9%
,Diameter of Additives: 8-20 nm
10-30nm, 20-30nm and 40-60nm
Length of Additives: 1-2 µm and 5-10 µm