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Abbreviations

ID	Inner Diameter
OD	Outer Diameter
SSA	Specific Surface Area
EC	Electric Conductivity
SWCNTs	Single-Walled Carbon Nanotubes
DWCNTs	Double-Walled Carbon Nanotubes
MWCMTs	Multi-Walled Carbon Nanotubes
OAN	Oil-Absorption Value
DOP	Diocetyl phthalate
MFI	Melt Flow Index

1 Graphene Products

1.1 Graphene

Product Model	Description
TNPRGO	High-Purity Graphene Purity:>98wt% Thickness:1-3nm Size:2-10µm Layers:< 3 SSA:250-400m ² /g Appearance: Black powder Min Order: 0.5g
TNERGO-3	High-Electrical Conductivity Graphene Purity:>98wt% Size: 1-5µm Layers:< 3 SSA: 50-80m ² /g Appearance: Black powder Min Order: 0.5g
TNERGO-10	High-Electrical Conductivity Graphene Purity:>98wt% Size: 8-15µm Layers:< 3 SSA: 70-110m ² /g Appearance: Black powder Min Order: 0.5g
TNERGO-50	High-Electrical Conductivity Graphene

Purity:>98wt%
Size: >50μm
Layers:< 3
SSA: 110-170m²/g
Appearance: Black powder
Min Order: 0.5g

TNRGO**Graphene**

Purity:>98wt%
Thickness:0.55-3.74nm
Size:0.5-3μm
Layers:<10
SSA:500-1000m²/g
Appearance: Black powder
Min Order: 0.5g

TNWRGO

According to the
content of solid
calculation

Graphene Dispersion

Purity:>98wt%
Thickness:0.55-3.74nm
Size:0.5-3μm
Layers:<10
SSA:500-1000m²/g
TNRGO content: 0.4~0.5 wt %
Dispersant Content:0.4~0.5 wt %
Appearance: Black water dispersion
Min Order: 1g

TNWPRGO**Graphene Aqueous Paste**

Purity:>98wt%
D(50):4-6μm
Layers:<10
SSA:500-700m²/g
TNRGO content: 1-1.5 wt %
Dispersant Content:0.2 -0.75wt%
Min Order: 1g

TNNPRGO**Graphene NMP Paste**

Purity:>98wt%
D(50):4-6μm
Layers:<10
SSA:500-700m²/g
TNRGO content: 1-1.5 wt %
Dispersant Content:0.2-0.75wt%
Min Order: 1g

TNNRGO	Nitrogen Doped Graphene Purity:>98wt% Thickness:1-3nm Size:2-10μm Layers:< 3 SSA:100-300m ² /g Appearance: Black powder Min Order: 0.5g
TNRGOC	-COOH Functionalized Graphene Purity:>98wt% Thickness:0.55-3.74nm Size:0.5-3μm Layers:<10 Appearance: Black powder Min Order: 0.5g
TNRGOH	-OH Functionalized Graphene Purity:>98wt% Thickness:0.55-3.74nm Size:0.5-3μm Layers:<10 Appearance: Black powder Min Order: 0.5g
TNIRGO	Industrial Graphene Purity:>97wt% Size:<6μm Layers:<10 SSA:80-120m ² /g EC:>1000S/m Min Order: 10g

1.2 Graphene Films

Product Model	Description
TNFCA1	Graphene Film on Copper Foil Monolayer A Square Resistance:300-600Ω/◇ Size:1cm*1cm
TNFCB1	Monolayer B Square Resistance:700-1500Ω/◇ Size:1cm*1cm

TNFCF1	Few layer Square Resistance:500-1200Ω/◇ Size:1cm*1cm
TNFCA2	MonolayerA Square Resistance:300-600Ω/◇ Size:2cm*2cm
TNFCA2	MonolayerB Square Resistance:700-1500Ω/◇ Size:2cm*2cm
TNFCF2	Few layer Square Resistance:500-1200Ω/◇ Size:2cm*2cm
TNFCA5	Monolayer A Square Resistance:300-600Ω/◇ Size:5cm*5cm
TNFCA5	Monolayer B Square Resistance:700-1500Ω/◇ Size:5cm*5cm
TNFCF5	Few layer Square Resistance:500-1200Ω/◇ Size:5cm*5cm
TNFCA51	Monolayer A Square Resistance:300-600Ω/◇ Size:5cm*10cm
TNFCA51	Monolayer B Square Resistance:700-1500Ω/◇ Size:5cm*10cm
TNFCF51	Few layer Square Resistance:500-1200Ω/◇ Size:5cm*10cm
TNFCA10	Monolayer A Square Resistance:300-600Ω/◇ Size:10cm*10cm

TNFCB10	Monolayer B Square Resistance:700-1500Ω/◇ Size:10cm*10cm
TNFCF10	Few layer Square Resistance:500-1200Ω/◇ Size:10cm*10cm
TNFCA15	Monolayer A Square Resistance:300-600Ω/◇ Size:10cm*15cm
TNFCB15	Monolayer B Square Resistance:700-1500Ω/◇ Size:10cm*15cm
TNFCF15	Few layer Square Resistance:500-1200Ω/◇ Size:10cm*15cm
TNFCA23	MonolayerA Square Resistance:300-600Ω/◇ Size:20cm*30cm
TNFCB23	MonolayerB Square Resistance:700-1500Ω/◇ Size:20cm*30cm
TNFCF23	Few layer Square Resistance:500-1200Ω/◇ Size:20cm*30cm

Product Model	Description
TNFPCA1	Steeping-Taking Graphene Film on Copper Foil Monolayer A Square Resistance:300-600Ω/◇ Size:1cm*1cm
TNFPCB1	Monolayer B Square Resistance:700-1500Ω/◇ Size:1cm*1cm
TNFPCF1	Few layer

	Square Resistance:500-1200Ω/◇
TNFPCA2	Size:1cm*1cm MonolayerA
	Square Resistance:300-600Ω/◇
TNFPCB2	Size:2cm*2cm MonolayerB
	Square Resistance:700-1500Ω/◇
TNFPCF2	Size:2cm*2cm Few layer
	Square Resistance:500-1200Ω/◇
TNFPCA5	Size:2cm*2cm Monolayer A
	Square Resistance:300-600Ω/◇
TNFPCB5	Size:5cm*5cm Monolayer B
	Square Resistance:700-1500Ω/◇
TNFPCF5	Size:5cm*5cm Few layer
	Square Resistance:500-1200Ω/◇
TNFPCA51	Size:5cm*5cm Monolayer A
	Square Resistance:300-600Ω/◇
TNFPCB51	Size:5cm*10cm Monolayer B
	Square Resistance:700-1500Ω/◇
TNFPCF51	Size:5cm*10cm Few layer
	Square Resistance:500-1200Ω/◇
TNFPCA10	Size:5cm*10cm Monolayer A
	Square Resistance:300-600Ω/◇
TNFPCB10	Size:10cm*10cm Monolayer B

TNFPCF10
 Square Resistance:700-1500Ω/◇
 Size:10cm*10cm
 Few layer
 Square Resistance:500-1200Ω/◇
 Size:10cm*10cm

Product Model	Description
	Impending Self-help Transfer Graphene Film
TNFTA1	Monolayer A Square Resistance:300-600Ω/◇ Size:1cm*1cm
TNFTB1	Monolayer B Square Resistance:700-1500Ω/◇ Size:1cm*1cm
TNFTF1	Few layer Square Resistance:500-1200Ω/◇ Size:1cm*1cm
TNFTA2	MonolayerA Square Resistance:300-600Ω/◇ Size:2cm*2cm
TNFTB2	MonolayerB Square Resistance:700-1500Ω/◇ Size:2cm*2cm
TNFTF2	Few layer Square Resistance:500-1200Ω/◇ Size:2cm*2cm
TNFTA5	Monolayer A Square Resistance:300-600Ω/◇ Size:5cm*5cm
TNFTB5	Monolayer B Square Resistance:700-1500Ω/◇ Size:5cm*5cm
TNFTF5	Few layer

Square Resistance:500-1200Ω/◇

Size:5cm*5cm

Product Model	Description
	Graphene Film on Silicon Oxide Substrates
TNFMA1	Monolayer A Square Resistance:300-600Ω/◇ Size:1cm*1cm
TNFMB1	Monolayer B Square Resistance:700-1500Ω/◇ Size:1cm*1cm
TNFMF1	Few layer Square Resistance:500-1200Ω/◇ Size:1cm*1cm
TNFMA2	MonolayerA Square Resistance:300-600Ω/◇ Size:2cm*2cm
TNFMB2	MonolayerB Square Resistance:700-1500Ω/◇ Size:2cm*2cm
TNFMF2	Few layer Square Resistance:500-1200Ω/◇ Size:2cm*2cm
TNFMA5	Monolayer A Square Resistance:300-600Ω/◇ Size:5cm*5cm
TNFMB5	Monolayer B Square Resistance:700-1500Ω/◇ Size:5cm*5cm
TNFMF5	Few layer Square Resistance:500-1200Ω/◇ Size:5cm*5cm
TNFMA7	Monolayer A

Square Resistance:300-600Ω/◇

TNFMB7

Size:7cm*7cm

Monolayer B

Square Resistance:700-1500Ω/◇

TNFMF7

Size:7cm*7cm

Few layer

Square Resistance:500-1200Ω/◇

Size:7cm*7cm

Product Model	Description
	Graphene Film on Quartz Substrates
TNFQA1	Monolayer A
	Square Resistance:300-600Ω/◇
TNFQB1	Monolayer B
	Size:1cm*1cm
	Square Resistance:700-1500Ω/◇
TNFQF1	Few layer
	Size:1cm*1cm
	Square Resistance:500-1200Ω/◇
TNFQA2	MonolayerA
	Size:1cm*1cm
	Square Resistance:300-600Ω/◇
TNFQB2	MonolayerB
	Size:2cm*2cm
	Square Resistance:700-1500Ω/◇
TNFQF2	Few layer
	Size:2cm*2cm
	Square Resistance:500-1200Ω/◇
TNFQA5	Monolayer A
	Size:2cm*2cm
	Square Resistance:300-600Ω/◇
TNFQB5	Monolayer B
	Size:5cm*5cm

Square Resistance:700-1500Ω/◇

Size:5cm*5cm

TNFQF5

Few layer

Square Resistance:500-1200Ω/◇

Size:5cm*5cm

Product Model	Description
	Graphene Film on PET Substrates
TNFPA1	Monolayer A Square Resistance:300-600Ω/◇ Size:1cm*1cm
TNFPB1	Monolayer B Square Resistance:700-1500Ω/◇ Size:1cm*1cm
TNFPF1	Few layer Square Resistance:500-1200Ω/◇ Size:1cm*1cm
TNFPA2	MonolayerA Square Resistance:300-600Ω/◇ Size:2cm*2cm
TNFPB2	MonolayerB Square Resistance:700-1500Ω/◇ Size:2cm*2cm
TNFPF2	Few layer Square Resistance:500-1200Ω/◇ Size:2cm*2cm
TNFPA5	Monolayer A Square Resistance:300-600Ω/◇ Size:5cm*5cm
TNFPB5	Monolayer B Square Resistance:700-1500Ω/◇ Size:5cm*5cm
TNFPF5	Few layer

Square Resistance:500-1200Ω/◇

TNFPA51

Size:5cm*5cm

Monolayer A

Square Resistance:300-600Ω/◇

TNFPB51

Size:5cm*10cm

Monolayer B

Square Resistance:700-1500Ω/◇

TNFPF51

Size:5cm*10cm

Few layer

Square Resistance:500-1200Ω/◇

Size:5cm*10cm

1.3 Graphene Foam

Product Model	Description
	Nickel Graphene Foam
TNNFA1	Monolayer A Thickness:1-1.2mm Size:1cm*1cm
TNNFA2	Monolayer A Thickness:1-1.2mm Size:2cm*2cm
TNNFA5	Monolayer A Thickness:1-1.2mm Size:5cm*5cm
TNNFA51	Monolayer A Thickness:1-1.2mm Size:5cm*10cm

Product Model	Description
	Impending Self-help Transfer Nickel Graphene Foam
TNNFTA1	Monolayer A Thickness:1-1.2mm Size:1cm*1cm
TNNFTA2	Monolayer A Thickness:1-1.2mm Size:2cm*2cm
TNNFTA5	Monolayer A

TNNFTA51

Thickness:1-1.2mm
Size:5cm*5cm
Monolayer A
Thickness:1-1.2mm
Size:5cm*10cm

1.4 Graphene Oxide

TNGO	Graphene Oxide Powder Purity:>99wt% Thickness:0.55~1.2nm Size:0.5-3 μ m Layers:<3 Appearance: Brown yellow powder Min Order: 0.5g
TNGO-3	Graphene Oxide Powder Purity:>98wt% ASH: <1.5wt% Size:1-5 μ m Layers:1-2 Min Order: 0.5g
TNGO-10	Graphene Oxide Powder Purity:>98wt% ASH: <1.5wt% Size:8-15 μ m Layers:1-2 Min Order: 0.5g
TNGO-50	Graphene Oxide Powder Purity:>98wt% ASH: <1.5wt% Size:>50 μ m Layers:1-2 Min Order: 0.5g
TNIGO	Industrial Graphene Oxide Purity:>97wt% Thickness:0.55-2.0 nm Size:3-10 μ m Layers:<5 Min Order: 20g
TNWGO According to the content of solid calculation	Graphene Oxide Gel Purity:>99wt% Thickness:0.55~1.2nm Size:0.5-3 μ m

Layers:<3
TNGO content: 1 wt %
Appearance: Brown gel
Min Order: 1g

TNWGO-3	Graphene Oxide Gel
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Purity:>98wt%
ASH: <1.5wt%
Size:1-5μm
Layers:1-2
TNGO content: 1-8wt%
Min Order: 1g

TNWGO-10	Graphene Oxide Gel
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Purity:>98wt%
ASH: <1.5wt%
Size:8-15μm
Layers:1-2
TNGO content: 1-8wt%
Min Order: 1g

TNWGO-50	Graphene Oxide Gel
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Purity:>98wt%
ASH: <1.5wt%
Size:>50μm
Layers:1-2
TNGO content: 1-8wt%
Min Order: 1g

TNWIGO	Industrial Graphene Oxide Gel
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Purity:>99wt%
Thickness:<5nm
Size:2-8μm
Layers:<5
D50=3.737μm
Min Order: 20g

1.5 Graphene Nanoplatelets

TNGNP	Graphene Nanoplatelets
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Purity:>99.5wt%
Thickness:4-20nm
Size:5-10μm
Layers:<20
Density: 0.6g/cm³
PH Value:PH=7.00-7.65 (30°C)
Appearance: Grey brown powder

Min Order: 5g

TNIGNP	Industrial Graphene Nanoplatelet Purity:>90wt% layers: <30 Diameter: 2-16um Density: 0.6g/cm ³ Volume Resistivity:<0.15 ohm.cm
TNIGNP-2	Industrial Graphene Nanoplatelet Purity:>90wt% Layers: <30 Diameter: 2-13um Density: 0.2g/cm ³ Volume Resistivity:<0.2 ohm.cm
TNWIGNP	Industrial Graphite Nanoplatelet Aqueous Paste Purity:>90wt% IGNP Content: 5wt% Dispersant Content: 1wt% layers: <30 Diameter: 2-16um SSA:30-40m ² /g
TNNIGNP	Industrial Graphite Nanoplatelet NMP Paste Purity:>90wt% IGNP Content: 5wt% Dispersant Content: 1wt% layers: <30 Diameter: 2-16um SSA:30-40m ² /g

1.6 Graphene Composite

TNRGO-BTH	Graphene White Carbon Black Composite Graphene Purity:>98wt% Graphene Content:5-50wt% Graphene Layers: <3 SSA: 110-150m ² /g Volume Resistivity:<10 ohm.cm
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TNRGO-CB	Graphene Carbon Black Composite Graphene Purity:>98wt% Graphene Content:20-50wt% Graphene Layers: <3 SSA: 100-130m ² /g Volume Resistivity:<0.3 ohm.cm
TNRGO-CNT2	Graphene Carbon Nanotubes Composite Graphene Content:10-50wt% Graphene Layers: <3 CNTs Diameter:8-15μm ASH:< 3wt%
TNRGO-CNT8	Graphene Carbon Nanotubes Composite Graphene Content:10-50wt% Graphene Layers: <3 CNTs Diameter:>50μm ASH:< 3wt%
TNIGNP-CNTs	Industrial Graphite Nanoplatelet CNTs Powder Composite Purity:>90wt% GNP and CNTs composition proportion 4:1 adjustable Layers: <30 Median size d(0.5): 5-7um
TNWIGNP-CNTs	Industrial Graphite Nanoplatelet CNTs Composite Aqueous Paste Purity:>90wt% GNP and CNTs Content: 5wt% GNP and CNTs composition proportion 4:1 adjustable Dispersant Content: 0.5-1.5wt% Layers: <30 Median size d(0.5): 3-6um
TNNIGNP-CNTs	Industrial Graphite Nanoplatelet CNTs Composite NMP Paste Purity:>90wt% GNP and CNTs Content: 5wt% GNP and CNTs composition proportion 4:1 adjustable Dispersant Content: 0.5-1.5wt%

layers: <30
 Median size d(0.5): 3-6um

2 SWCNTs Products

2.1 High Purity Single-walled Carbon Nanotubes (Purity>95%) (moving catalyst method)

Product Model	Description
TNST	High Purity SWCNTs (moving catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:5-30 μm SSA:>490 m ² /g ASH: <5wt% Ignited Temperature: >610°C Tap density: 0.14g/cm ³ EC:>100s/cm Making method:CVD Appearance: Black powder Min Order: 1g

2.2 High Purity Single-walled Carbon Nanotubes (Purity>95%) (floating catalyst method)

Product Model	Description
TNSR	High Purity SWCNTs (floating catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:5-30 μm SSA:>690 m ² /g ASH: <5wt% EC:>100s/cm
TNSRH	High Purity SWCNTs,-OH functionalized (floating catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm

Length:5-30 μm
 EC:>100s/cm
 Appearance: Black powder

TNSRC	High Purity SWCNTs,-COOH functionalized (floating catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:5-30 μm EC:>100s/cm Appearance: Black powder
TNSRN	High Purity SWCNTs,-NH₂ functionalized (floating catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:5-30 μm EC:>100s/cm Appearance: Black powder
TNSSR	Short high Purity SWCNTs (floating catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:1-3 μm SSA:>670 m^2/g EC:>100s/cm Appearance: Black powder
TNSSRH	Short high Purity SWCNTs,-OH functionalized (floating catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:1-3 μm SSA:>630 m^2/g EC:>100s/cm Appearance: Black powder
TNSSRC	Short high Purity SWCNTs,-COOH functionalized (floating catalyst method)
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:1-3 μm EC:>100s/cm Appearance: Black powder

2.3 High Purity Large Surface Area Single-walled Carbon Nanotubes

(Purity>95%)

Product Model	Description
TNSAR	High Purity Large Surface Area SWCNTs
SWCNTs 95%	Purity:>95wt% OD:<2nm Length:5-30 μm SSA:>1075 m^2/g ASH: <2.5wt% EC:>100s/cm

2.4 Purified Single-walled Carbon Nanotubes (Purity>90%)

TNS	Purified SWCNTs
SWCNTs 90%	Purity:>90wt% OD: 1-2nm Length: 5-30 μm SSA:>380 m^2/g ASH: <5wt% Tap density: 0.14g/cm ³ True density: ~2.1g/cm ³ EC:>100s/cm Making method:CVD Color: Black Min Order: 1g
TNSH	Purified SWCNTs,-OH functionalized
SWCNTs -OH Functionalized 90%	Purity:>90wt% -OH Content:3.96wt% OD: 1-2nm Length: 5-30 μm SSA:>300 m^2/g ASH: <5wt% Tap density: 0.14g/cm ³ True density: ~2.1g/cm ³ EC:>100s/cm Making method:CVD Color: Black Min Order: 1g
TNSC	Purified SWCNTs,-COOH functionalized

SWCNTs
 -COOH
 Functionalized
 90%

Purity:>90wt%
 -COOH Content:2.73wt%
 OD: 1-2nm
 Length: 5-30 μm
 SSA:>320 m²/g
 ASH: <5wt%
 Tap density: 0.14g/cm³
 True density: ~2.1g/cm³
 EC:>100s/cm
 Making method:CVD
 Color: Black
 Min Order: 1g

TNSS **Short Purified SWCNTs**

SWCNTs
 Length-tailored
 90%

Purity:>90wt%
 OD: 1-2nm
 Length: 1-3μm
 SSA:>340 m²/g
 ASH: <5wt%
 Tap density: 0.14g/cm³
 True density: ~2.1g/cm³
 EC:>100s/cm
 Making method:CVD
 Color: Black
 Min Order: 1g

TNSSH **Short Purified SWCNTs, -OH functionalized**

SWCNTs
 Length-tailored
 -OH
 Functionalized
 90%

Purity:>90wt%
 -OH Content:3.96wt%
 OD: 1-2nm
 Length: 1-3μm
 SSA:>380 m²/g
 ASH: <5wt%
 Tap density: 0.14g/cm³
 True density: ~2.1g/cm³
 EC:>100s/cm
 Making method:CVD
 Color: Black
 Min Order: 1g

TNSSC **Short Purified SWCNTs, -COOH functionalized**

SWCNTs
 Length-tailored
 -COOH
 Functionalized

Purity:>90wt%
 -COOH Content:2.73wt%
 OD: 1-2nm
 Length: 1-3μm

90%
 SSA:>380 m²/g
 ASH: <5wt%
 Tap density: 0.14g/cm³
 True density: ~2.1g/cm³
 EC:>100s/cm
 Making method:CVD
 Color: Black
 Min Order: 1g

2.5 Industrial Single-walled Carbon Nanotubes (Purity>60%)

TNIS	Industrial SWCNTs
SWCNTs 60%	Purity:>60wt% OD: 1-2nm Length: 5-30μm SSA:>407 m ² /g ASH: <5wt% Tap density: 0.14g/cm ³ True density: ~2.1g/cm ³ EC:>100s/cm Making method:CVD Color: Black Min Order: 1g
TNISH	Industrial SWCNTs, -OH functionalized
SWCNTs -OH Functionalized 60%	Purity:>60wt% -OH Content: 3.96wt% OD: 1-2nm Length: 5-30μm SSA:>407 m ² /g ASH: <5wt% Tap density: 0.14g/cm ³ True density: ~2.1g/cm ³ EC:>100s/cm Making method:CVD Color: Black Min Order: 1g
TNISC	Industrial SWCNTs, -COOH functionalized
SWCNTs -COOH Functionalized 60%	Purity:>60wt% -COOH Content: 2.73wt% OD: 1-2nm Length: 5-30μm SSA:>407 m ² /g

ASH: <5wt%
Tap density: 0.14g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 1g

2.6 HiPCO,Arc and Plasma Preparation Single-walled CNTs Dispersion

TNWMHS

Mixed Single-walled CNTs dispersion

CNTs Preparation Technology:HiPCO
Purity of SWCNTs:>98wt%
Diameter: 0.7-1.3nm
Length: 0.4-1.3μm
Solvent: water
Dispersant: surfactant
Initial concentration:>0.1 mg/ml

TNWMPS

Mixed Single-walled CNTs dispersion

CNTs Preparation Technology:Plasma
Purity of SWCNTs:>98wt%
Diameter: 1.2-1.7nm
Length: 0.8-3.0μm
Solvent: water
Dispersant: surfactant
Initial concentration:>0.1 mg/ml

TNWCHS

Semiconducting Single-walled CNTs dispersion

CNTs Preparation Technology:HiPCO
Purity of semiconductor SWCNTs:>99wt%
Diameter: 0.7-1.3nm
Length: 0.4-1.0μm
Solvent: water
Dispersant: surfactant
Initial concentration:>0.1 mg/ml

TNMCHS

Semiconducting Single-walled CNTs dispersion

CNTs Preparation Technology:HiPCO
Purity of semiconductor SWCNTs:>99.9wt%
Diameter: 0.7-1.3nm
Length: 0.8-2.5μm
Solvent: methylbenzene
Dispersant: conjugated polymer

Initial concentration:>0.2 mg/ml

TNWCAS**Semiconducting Single-walled CNTs dispersion**

CNTs Preparation Technology:Arc

Purity of semiconductor SWCNTs:>99.9wt%

Diameter: 1.2-1.6nm

Length: 0.8-2.5µm

Solvent: methylbenzene

Dispersant: conjugated polymer

Initial concentration:>0.2 mg/ml

TNWMS**Metallic Single-walled CNTs dispersion**

CNTs Preparation Technology:Hipco

Purity of metallic SWCNTs:>90wt%

Diameter: 0.8-1.2nm

Length: 0.1-1µm

Solvent: water

Dispersant: surfactant

Initial concentration:>0.1 mg/ml

3 DWCNTs Products

Product Model**Description****TND****DWCNTs**

DWCNTs
60%

Purity:>60wt%

ID:1-3nm

OD: 2-4nm

Length: ~50µm

SSA: >340m²/g

ASH: <5wt%

True density: ~2.1g/cm³

EC:>100s/cm

Making method:CVD

Color: Black

Min Order: 1g

TNDH**DWCNTs,-OH functionalized**

DWCNTs
-OH
Functionalized
60%

Purity:>60wt%

-OH Content: 2.92wt%

ID:1-3nm

OD: 2-4nm

Length: ~50µm

SSA: >350m²/g

ASH: <5wt%

True density: ~2.1g/cm³

EC:>100s/cm
 Making method:CVD
 Color: Black
 Min Order: 1g

TNDC	DWCNTs, -COOH functionalized
DWCNTs -COOH Functionalized 60%	Purity:>60wt% -OH Content: 2.58wt% ID:1-3nm OD: 2-4nm Length: ~50μm SSA: >350m ² /g ASH: <5wt% True density: ~2.1g/cm ³ EC:>100s/cm Making method:CVD Color: Black Min Order: 1g

4 MWCNTs Products

4.1 Purified Multi-walled carbon nanotubes (purity:>98%)

Product Model	Description
TNM1	Purified MWCNTs
MWCNTs 98%, <8nm	Purity:>98wt% ID: 2-5nm OD: <8nm Length: 10-30μm SSA: >350m ² /g ASH: <1.5wt% Tap density: 0.27g/cm ³ True density: ~2.1g/cm ³ EC:>100s/cm Making method:CVD Color: Black Min Order: 10g
TNM2	Purified MWCNTs
MWCNTs 95%, 8-15nm	Purity:>95wt% ID:3-5nm OD: 8-15nm

Length: ~50 μ m
SSA: >140m²/g
ASH: <1.5wt%
Tap density: 0.15g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 10g

TNM3

MWCNTs
98%, 10-20nm

Purified MWCNTs

Purity:>98wt%
ID: 5-10nm
OD: 10-20nm
Length: 10-30 μ m
SSA: >150m²/g
ASH: <1.5wt%
Tap density: 0.22 g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 10g

TNM5

MWCNTs
98%, 20-30nm

Purified MWCNTs

Purity:>98wt%
ID: 5-10nm
OD:20-30nm
Length: 10-30 μ m
SSA: >110m²/g
ASH: <1.5wt%
Tap density: 0.28 g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 10g

TNM7

MWCNTs
98%, 30-50nm

Purified MWCNTs

Purity:>98wt%
ID: 5-12nm
OD: 30-50nm
Length: 10-20 μ m
SSA: >100m²/g
ASH: <1.5wt%
Tap density: 0.22 g/cm³
True density: ~2.1g/cm³

EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 10g

TNM8

MWCNTs
98%, >50nm

Purified MWCNTs

Purity:>98wt%
ID: 5-15nm
OD: >50nm
Length: 10-20µm
SSA: >60m²/g
ASH: <1.5wt%
Tap density: 0.18 g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 10g

TNMH1

MWCNTs
-OH
Functionalized
98%, <8nm

Purified MWCNTs, -OH functionalized

Purity:>98wt%
-OH Content:5.58wt%
ID: 2-5nm
OD: <8nm
Length: 10-30µm
SSA: >400m²/g
ASH: <1.5wt%
Tap density: 0.27g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 10g

TNMH2

MWCNTs
-OH
Functionalized
95%, 8-15nm

Purified MWCNTs, -OH functionalized

Purity:>95wt%
-OH Content:3.70wt%
ID:3-5nm
OD: 8-15nm
Length: ~50µm
SSA: >233m²/g
ASH: <1.5wt%
Tap density: 0.15g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black

Min Order: 10g

TNMH3	Purified MWCNTs, -OH functionalized
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MWCNTs	Purity:>98wt%
-OH	-OH Content:3.06wt%
Functionalized	ID: 5-10nm
98%, 10-20nm	OD: 10-20nm
	Length: 10-30 μ m
	SSA: >170m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g

TNMH5	Purified MWCNTs, -OH functionalized
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MWCNTs	Purity:>98wt%
-OH	-OH Content:1.76wt%
Functionalized	ID: 5-10nm
98%, 20-30nm	OD:20-30nm
	Length: 10-30 μ m
	SSA: >110m ² /g
	ASH: <1.5wt%
	Tap density: 0.28 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g

TNMH7	Purified MWCNTs, -OH functionalized
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MWCNTs	Purity:>98wt%
-OH	-OH Content:1.06wt%
Functionalized	ID: 5-12nm
98%, 30-50nm	OD: 30-50nm
	Length: 10-20 μ m
	SSA: >100m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g

TNMH8	Purified MWCNTs, -OH functionalized
MWCNTs	Purity:>98wt%
-OH	-OH Content:0.71wt%
Functionalized	ID: 5-15nm
98%, >50nm	OD: >50nm
	Length: 10-20μm
	SSA: >60m ² /g
	ASH: <1.5wt%
	Tap density: 0.18 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g
TNMC1	Purified MWCNTs, -COOH functionalized
MWCNTs	Purity:>98wt%
-COOH	-COOH Content: 3.86wt%
Functionalized	ID: 2-5nm
98%, <8nm	OD: <8nm
	Length: 10-30μm
	SSA: >400m ² /g
	ASH: <1.5wt%
	Tap density: 0.27g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g
TNMC2	Purified MWCNTs, -COOH functionalized
MWCNTs	Purity:>95wt%
-COOH	-COOH Content: 2.56wt%
Functionalized	ID:3-5nm
95%, 8-15nm	OD: 8-15nm
	Length: ~50μm
	SSA: >130m ² /g
	ASH: <1.5wt%
	Tap density: 0.15g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g

TNMC3	Purified MWCNTs, -COOH functionalized
MWCNTs	Purity:>98wt%
-COOH	-COOH Content: 2.00wt%
Functionalized	ID: 5-10nm
98%, 10-20nm	OD: 10-20nm
	Length: 10-30μm
	SSA: >200m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g
TNMC5	Purified MWCNTs, -COOH functionalized
MWCNTs	Purity:>98wt%
-COOH	-COOH Content:1.23wt%
Functionalized	ID: 5-10nm
98%, 20-30nm	OD:20-30nm
	Length: 10-30μm
	SSA: >110m ² /g
	ASH: <1.5wt%
	Tap density: 0.28 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g
TNMC7	Purified MWCNTs, -COOH functionalized
MWCNTs	Purity:>98wt%
-COOH	-COOH Content: 0.73wt%
Functionalized	ID: 5-12nm
98%, 30-50nm	OD: 30-50nm
	Length: 10-20μm
	SSA: >100m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g

TNMC8	Purified MWCNTs, -COOH functionalized
MWCNTs	Purity:>98wt%
-COOH	-COOH Content: 0.49wt%
Functionalized	ID: 5-15nm
98%, >50nm	OD: >50nm
	Length: 10-20μm
	SSA: >60m ² /g
	ASH: <1.5wt%
	Tap density: 0.18 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g

4.2 Short Purified Multi-walled carbon nanotubes (purity:>98%)

Product Model	Description
TNSM1	Short Purified MWCNTs
MWCNTs	Purity:>98wt%
Length-tailored	ID: 2-5nm
98%, <8nm	OD: <8nm
	Length: 0.5-2μm
	SSA: >350m ² /g
	ASH: <1.5wt%
	Tap density: 0.27g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g
TNSM2	Short Purified MWCNTs
MWCNTs	Purity:>95wt%
Length-tailored	ID:3-5nm
95%, 8-15nm	OD: 8-15nm
	Length: 0.5-2μm
	SSA: >180m ² /g
	ASH: <1.5wt%
	Tap density: 0.15g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black

Min Order: 5

TNSM3	Short Purified MWCNTs
MWCNTs	Purity:>98wt%
Length-tailored	ID: 5-10nm
98%, 10-20nm	OD: 10-20nm
	Length: 0.5-2 μ m
	SSA: >200m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g

TNSM5	Short Purified MWCNTs
MWCNTs	Purity:>98wt%
Length-tailored	ID: 5-10nm
98%, 20-30nm	OD:20-30nm
	Length: 0.5-2 μ m
	SSA: >120m ² /g
	ASH: <1.5wt%
	Tap density: 0.28 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g

TNSM7	Short Purified MWCNTs
MWCNTs	Purity:>98wt%
Length-tailored	ID: 5-12nm
98%, 30-50nm	OD: 30-50nm
	Length: 0.5-2 μ m
	SSA: >100m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g

TNSM8	Short Purified MWCNTs
MWCNTs	Purity:>98wt%
Length-tailored	ID: 5-15nm
98%, >50nm	OD: >50nm

Length: 0.5-2 μ m
 SSA: >70m²/g
 ASH: <1.5wt%
 Tap density: 0.18 g/cm³
 True density: ~2.1g/cm³
 EC:>100s/cm
 Making method:CVD
 Color: Black
 Min Order: 5g

TNSMH1	Short Purified MWCNTs, -OH functionalized
MWCNTs	Purity:>98wt%
Length-tailored	-OH Content:5.58wt%
-OH	ID: 2-5nm
Functionalized	OD: <8nm
98%, <8nm	Length: 0.5-2 μ m
	SSA: >380m ² /g
	ASH: <1.5wt%
	Tap density: 0.27g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g
TNSMH2	Short Purified MWCNTs, -OH functionalized
MWCNTs	Purity:>95wt%
Length-tailored	-OH Content:3.70wt%
-OH	ID:3-5nm
Functionalized	OD: 8-15nm
95%, 8-15nm	Length: 0.5-2 μ m
	SSA: >170m ² /g
	ASH: <1.5wt%
	Tap density: 0.15g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g
TNSMH3	Short Purified MWCNTs, -OH functionalized
MWCNTs	Purity:>98wt%
Length-tailored	-OH Content:3.06wt%
-OH	ID: 5-10nm
Functionalized	OD: 10-20nm
98%, 10-20nm	Length: 0.5-2 μ m
	SSA: >200m ² /g

ASH: <1.5wt%
Tap density: 0.22 g/cm³
True density: ~2.1g/cm³
EC:>100s/cm
Making method:CVD
Color: Black
Min Order: 5g

TNSMH5	Short Purified MWCNTs, -OH functionalized
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MWCNTs	Purity:>98wt%
Length-tailored	-OH Content:1.76wt%
-OH	ID: 5-10nm
Functionalized	OD:20-30nm
98%, 20-30nm	Length: 0.5-2μm
	SSA: >160m ² /g
	ASH: <1.5wt%
	Tap density: 0.28 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g

TNSMH7	Short Purified MWCNTs, -OH functionalized
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MWCNTs	Purity:>98wt%
Length-tailored	-OH Content:1.06wt%
-OH	ID: 5-12nm
Functionalized	OD: 30-50nm
98%, 30-50nm	Length:0.5-2μm
	SSA: >110m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g

TNSMH8	Short Purified MWCNTs, -OH functionalized
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MWCNTs	Purity:>98wt%
Length-tailored	-OH Content:0.71wt%
-OH	ID: 5-15nm
Functionalized	OD: >50nm
98%, >50nm	Length: 0.5-2μm
	SSA: >90m ² /g
	ASH: <1.5wt%
	Tap density: 0.18 g/cm ³

True density: $\sim 2.1 \text{g/cm}^3$
EC: $>100 \text{s/cm}$
Making method: CVD
Color: Black
Min Order: 5g

TNSMC1	Short Purified MWCNTs, -COOH functionalized
MWCNTs	Purity: $>98 \text{wt}\%$
Length-tailored	-COOH Content: $3.86 \text{wt}\%$
-COOH	ID: 2-5nm
Functionalized	OD: $<8 \text{nm}$
98%, $<8 \text{nm}$	Length: $0.5-2 \mu\text{m}$
	SSA: $>270 \text{m}^2/\text{g}$
	ASH: $<1.5 \text{wt}\%$
	Tap density: 0.27g/cm^3
	True density: $\sim 2.1 \text{g/cm}^3$
	EC: $>100 \text{s/cm}$
	Making method: CVD
	Color: Black
	Min Order: 5g

TNSMC2	Short Purified MWCNTs, -COOH functionalized
MWCNTs	Purity: $>95 \text{wt}\%$
Length-tailored	-COOH Content: $2.56 \text{wt}\%$
-COOH	ID: 3-5nm
Functionalized	OD: 8-15nm
95%, 8-15nm	Length: $0.5-2 \mu\text{m}$
	SSA: $>160 \text{m}^2/\text{g}$
	ASH: $<1.5 \text{wt}\%$
	Tap density: 0.15g/cm^3
	True density: $\sim 2.1 \text{g/cm}^3$
	EC: $>100 \text{s/cm}$
	Making method: CVD
	Color: Black
	Min Order: 5g

TNSMC3	Short Purified MWCNTs, -COOH functionalized
MWCNTs	Purity: $>98 \text{wt}\%$
Length-tailored	-COOH Content: $2.00 \text{wt}\%$
-COOH	ID: 5-10nm
Functionalized	OD: 10-20nm
98%, 10-20nm	Length: $0.5-2 \mu\text{m}$
	SSA: $>200 \text{m}^2/\text{g}$
	ASH: $<1.5 \text{wt}\%$
	Tap density: 0.22g/cm^3
	True density: $\sim 2.1 \text{g/cm}^3$
	EC: $>100 \text{s/cm}$

Making method:CVD

Color: Black

Min Order: 5g

TNSMC5	Short Purified MWCNTs, -COOH functionalized
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MWCNTs	Purity:>98wt%
Length-tailored	-COOH Content: 1.23wt%
-COOH	ID: 5-10nm
Functionalized	OD:20-30nm
98%, 20-30nm	Length: 0.5-2 μ m
	SSA: >170m ² /g
	ASH: <1.5wt%
	Tap density: 0.28 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g

TNSMC7	Short Purified MWCNTs, -COOH functionalized
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MWCNTs	Purity:>98wt%
Length-tailored	-COOH Content: 0.73wt%
-COOH	ID: 5-12nm
Functionalized	OD: 30-50nm
98%, 30-50nm	Length:0.5-2 μ m
	SSA: >90m ² /g
	ASH: <1.5wt%
	Tap density: 0.22 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 5g

TNSMC8	Short Purified MWCNTs, -COOH functionalized
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MWCNTs	Purity:>98wt%
Length-tailored	-COOH Content: 0.49wt%
-COOH	ID: 5-15nm
Functionalized	OD: >50nm
98%, >50nm	Length: 0.5-2 μ m
	SSA: >90m ² /g
	ASH: <1.5wt%
	Tap density: 0.18 g/cm ³
	True density: ~2.1g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black

Min Order: 5g

4.3 Graphitized Multi-walled carbon nanotubes (purity:>99.9%)

Product Model	Description
TNGM2	Graphitized MWCNTs
MWCNTs	Purity:>99.9wt%
Graphitized	ID:3-5nm
99.9%, 8-15nm	OD: 8-15nm
	Length: 10-50 μ m
	SSA: >90m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³
	Making method:CVD
	Heat treatment temperature:2800 $^{\circ}$ C
	Color: Black
	Min Order: 10g
TNGM3	Graphitized MWCNTs
MWCNTs	Purity:>99.9wt%
Graphitized	ID: 5-10nm
99.9%, 10-20nm	OD: 10-20nm
	Length: 5-30 μ m
	SSA: >80m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³
	Making method:CVD
	Heat treatment temperature:2800 $^{\circ}$ C
	Color: Black
	Min Order: 10g
TNGM5	Graphitized MWCNTs
MWCNTs	Purity:>99.9wt%
Graphitized	ID: 5-10nm
99.9%, 20-30nm	OD:20-30nm
	Length: 5-30 μ m
	SSA: >90m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³
	Making method:CVD
	Heat treatment temperature:2800 $^{\circ}$ C
	Color: Black
	Min Order: 10g
TNGM7	Graphitized MWCNTs
MWCNTs	Purity:>99.9wt%
Graphitized	ID: 5-12nm

99.9%, 30-50nm OD: 30-50nm
Length: 5-20µm
SSA: >70m²/g
ASH: <0.1wt%
True density: ~2.1g/cm³
Making method:CVD
Heat treatment temperature:2800°C
Color: Black
Min Order: 10g

TNGM8	Graphitized MWCNTs
MWCNTs	Purity:>99.9wt%
Graphitized	ID: 5-15nm
99.9%, >50nm	OD: >50nm
	Length: 5-20µm
	SSA: >60m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³
	Making method:CVD
	Heat treatment temperature:2800°C
	Color: Black
	Min Order: 10g

TNGMH2	Graphitized MWCNTs, -OH functionalized
MWCNTs	Purity:>99.9wt%
Graphitized	-OH Content:1.85wt%
-OH	ID:3-5nm
Functionalized	OD: 8-15nm
99.9%, 8-15nm	Length: 10-50µm
	SSA: >117m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³
	EC:100s/cm
	Making method:CVD
	Heat treatment temperature:2800°C
	Color: Black
	Min Order: 10g

TNGMH3	Graphitized MWCNTs, -OH functionalized
MWCNTs	Purity:>99.9wt%
Graphitized	-OH Content: 1.53wt%
-OH	ID: 5-10nm
Functionalized	OD: 10-20nm
99.9%, 10-20nm	Length: 5-30µm
	SSA: >120m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³

EC:100s/cm
Making method:CVD
Heat treatment temperature:2800°C
Color: Black
Min Order: 10g

TNGMH5 **Graphitized MWCNTs, -OH functionalized**

MWCNTs Purity:>99.9wt%
Graphitized -OH Content: 0.88wt%
-OH ID: 5-10nm
Functionalized OD:20-30nm
99.9%, 20-30nm Length: 5-30µm
SSA: >90m²/g
ASH: <0.1wt%
True density: ~2.1g/cm³
EC:100s/cm
Making method:CVD
Heat treatment temperature:2800°C
Color: Black
Min Order: 10g

TNGMH7 **Graphitized MWCNTs, -OH functionalized**

MWCNTs Purity:>99.9wt%
Graphitized -OH Content: 0.53wt%
-OH ID: 5-12nm
Functionalized OD: 30-50nm
99.9%, 30-50nm Length: 5-20µm
SSA: >80m²/g
ASH: <0.1wt%
True density: ~2.1g/cm³
EC:100s/cm
Making method:CVD
Heat treatment temperature:2800°C
Color: Black
Min Order: 10g

TNGMH8 **Graphitized MWCNTs, -OH functionalized**

MWCNTs Purity:>99.9wt%
Graphitized -OH Content: 0.36wt%
-OH ID: 5-15nm
Functionalized OD: >50nm
99.9%, >50nm Length: 5-20µm
SSA: >50m²/g
ASH: <0.1wt%
True density: ~2.1g/cm³
EC:100s/cm
Making method:CVD

Heat treatment temperature:2800°C

Color: Black

Min Order: 10g

TNGMC2**Graphitized MWCNTs, -COOH functionalized**

MWCNTs

Purity:>99.9wt%

Graphitized

-COOH Content: 1.28wt%

-COOH

ID:3-5nm

Functionalized

OD: 8-15nm

99.9%, 8-15nm

Length:10-50μm

SSA: >117m²/g

ASH: <0.1wt%

True density: ~2.1g/cm³

EC:100s/cm

Making method:CVD

Heat treatment temperature:2800°C

Color: Black

Min Order: 10g

TNGMC3**Graphitized MWCNTs, -COOH functionalized**

MWCNTs

Purity:>99.9wt%

Graphitized

-COOH Content: 1.00wt%

-COOH

ID: 5-10nm

Functionalized

OD: 10-20nm

99.9%, 10-20nm

Length: 5-30μm

SSA: >130m²/g

ASH: <0.1wt%

True density: ~2.1g/cm³

EC:100s/cm

Making method:CVD

Heat treatment temperature:2800°C

Color: Black

Min Order: 10g

TNGMC5**Graphitized MWCNTs, -COOH functionalized**

MWCNTs

Purity:>99.9wt%

Graphitized

-COOH Content: 0.61wt%

-COOH

ID: 5-10nm

Functionalized

OD:20-30nm

99.9%, 20-30nm

Length: 5-30μm

SSA: >90m²/g

ASH: <.0.1wt%

True density: ~2.1g/cm³

EC:100s/cm

Making method:CVD

Heat treatment temperature:2800°C

Color: Black

Min Order: 10g

TNGMC7	Graphitized MWCNTs, -COOH functionalized
MWCNTs	Purity:>99.9wt%
Graphitized	-COOH Content: 0.36wt%
-COOH	ID: 5-12nm
Functionalized	OD: 30-50nm
99.9%, 30-50nm	Length: 5-20μm
	SSA: >80m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³
	EC:100s/cm
	Making method:CVD
	Heat treatment temperature:2800°C
	Color: Black
	Min Order: 10g

TNGMC8	Graphitized MWCNTs, -COOH functionalized
MWCNTs	Purity:>99.9wt%
Graphitized	-COOH Content: 0.25wt%
-COOH	ID: 5-15nm
Functionalized	OD: >50nm
99.9%, >50nm	Length: 5-20μm
	SSA: >50m ² /g
	ASH: <0.1wt%
	True density: ~2.1g/cm ³
	EC:100s/cm
	Making method:CVD
	Heat treatment temperature:2800°C
	Color: Black
	Min Order: 10g

4.4 Ni Coated Multi-walled carbon nanotubes

Product Model	Description
TNNiM2	Ni Coated MWCNTs
MWCNTs	ID:3-5nm
Ni Coated	OD: 8-15nm
8-15nm	Length: ~50μm
	CNTs Content : >38wt%
	Ni Content: >60wt%
	Tap density: 0.83g/cm ³
	Making method:CVD
	Color: Black

Min Order: 10g

TNNiM3	Ni Coated MWCNTs
MWCNTs	ID: 5-10nm
Ni Coated	OD: 10-20nm
10-20nm	Length: 10-30 μ m
	CNTs Content : >38wt%
	Ni Content: >60wt%
	Tap density: 0.83g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 10g

TNNiM5	Ni Coated MWCNTs
MWCNTs	ID: 5-10nm
Ni Coated	OD:20-30nm
20-30nm	Length: 10-30 μ m
	CNTs Content : >38wt%
	Ni Content: >60wt%
	Tap density: 0.83g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 10g

TNNiM7	Ni Coated MWCNTs
MWCNTs	ID: 5-12nm
Ni Coated	OD: 30-50nm
30-50nm	Length: 10-20 μ m
	CNTs Content : >38wt%
	Ni Content: >60wt%
	Tap density: 0.83g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 10g

TNNiM8	Ni Coated MWCNTs
MWCNTs	ID: 5-15nm
Ni Coated	OD: >50nm
>50nm	Length: 10-20 μ m
	CNTs Content : >38wt%
	Ni Content: >60wt%
	Tap density: 0.83g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 10g

4.5 Other Special Multi-walled carbon nanotubes

Product Model	Description
TNLIM	Large-inner Thin-walled MWCNTs
MWCNTs	Purity:>70wt%
Large-inner	ID: 20-50nm
Thin-wall	OD: 30-60nm
70%,30-60nm	Length: 1-10 μ m
	SSA: >200m ² /g
	ASH: <2.0wt%
	Tap Density: 0.0441 g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g
TNFIM	Flash-ignited MWCNTs
MWCNTs	OD:2-50nm
Flash-ignited	Length:~50 μ m
2-50nm	Fe content: <25%
	CNT content:>50%
	SSA: >300m ² /g
	Tap Density:0.2g/cm ³
	EC:>100s/cm
	Making method:CVD
	Min Order: 10g
TNAIM	Aligned MWCNTs
MWCNTs	Purity:>98wt%
Aligned	OD:10-20nm
10-20nm	Length: 30-100 μ m
	SSA: >150m ² /g
	ASH: <2.0wt%
	Ignited Temperature: 661 $^{\circ}$ C
	Tap Density: 0.07 g/cm ³
	EC:>100s/cm
	Making method:CVD
	Color: Black
	Min Order: 10g
TNHIM	Helical MWCNTs
MWCNTs	OD: 100-200nm
Helical	Length: 1-10 μ m
100-200nm	CNTs Content : >90wt%
	Helical CNTs Content: >60wt%
	SSA: >30m ² /g
	ASH: <5.0wt%

Ignited Temperature: 560-600°C

Making method:CVD

Min Order: 10g

TNMN2

MWCNTs

-NH₂

Functionalized

95%, 8-15nm

MWCNTs, -NH₂ functionalized

Purity:>95wt%

-NH₂ Content: 0.45wt%

ID: 3-5nm

OD: 8-15nm

Length: ~50µm

SSA: >233m²/g

ASH: <1.5wt%

Tap density: 0.27 g/cm³

True density: ~2.1g/cm³

EC: >100s/cm

Making method:CVD

Color: Black

Min Order: 10g

TNCF

CNFs

70%,200-600nm

Carbon Nano Fibers

Purity:>70wt%

OD: 200-600nm

Length: 5-50µm

SSA: >18m²/g

ASH: <5.0wt%

Tap Density: 0.043 g/cm³

EC:>100s/cm

Making method:CVD

Appearance: Black Powder

Min Order: 10g

TNMCN7

N-doped

MWCNTs

98%,30-50nm

N-doped MWCNTs

Purity:>98wt%

N Content: >2.5 wt%

ID: 5-12nm

OD: 30-50 nm

Length: 10-30µm

SSA: >78.9m²/g

Ignited temperature: 460°C

Tap density: 0.27g/cm³

EC:>100s/cm

Making method:CVD

Color: Black

Min Order: 10g

5 Industrial MWCNTs Products

Product Model	Description
TNIM1	Industrial MWCNTs
MWCNTs	Purity:>95wt%
Industrial	OD: 5-15nm
95%,5-15nm	Length: 10-30μm
	SSA: 160-190m ² /g
	ASH: <3.0wt%
	Making method:CVD
	Color: Black
	Min Order: 1kg
TNIMC1	Industrial –COOH Functionalized MWCNTs
MWCNTs	Purity:>95wt%
Industrial	OD: 5-15nm
95%,5-15nm	Length: 10-30μm
	ASH: <3.0wt%
	Making method:CVD
	Color: Black
	Min Order: 1kg
TNIM2	Industrial MWCNTs
MWCNTs	Purity:>95wt%
Industrial	OD: 8-15nm
95%, 8-15nm	Length: 30-50μm
	SSA: >230m ² /g
	ASH: <3.0wt%
	True density: ~2.1g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 1kg
TNIMC2	Industrial –COOH Functionalized MWCNTs
MWCNTs	Purity:>95wt%
Industrial	OD: 8-15nm
95%, 8-15nm	Length: 30-50μm
	ASH: <3.0wt%
	Making method:CVD
	Min Order: 1kg
TNIM298F	Industrial MWCNTs
MWCNTs	Purity:>95wt%
Industrial	OD: 8-15nm
95%, 8-15nm	Length: 30-50μm

ASH: <2.0wt%
Making method:CVD
Min Order: 1kg

TNIM3**Industrial MWCNTs**

MWCNTs
Industrial
95%, 10-20nm

Purity:>95wt%
OD: 10-20nm
Length: 20-100µm
SSA: >150m²/g
ASH: <3.0wt%
Tap density: 0.082 g/cm³
True density: ~2.1g/cm³
Making method:CVD
Color: Black
Min Order: 1kg

TNNF-6**Industrial MWCNTs**

MWCNTs
Industrial
95%, 10-20nm

Purity:>95wt%
OD: 10-20nm
Length: 5-20µm
SSA: >120m²/g

TNFN-8**Short Industrial MWCNTs**

MWCNTs
Industrial
95%, >50nm

Purity:>95wt%
ID:5-15nm
OD: >50nm
Length: 1-5µm
SSA: >110m²/g
Tap Density: 0.31g/cm³

TNIM4**Industrial MWCNTs**

MWCNTs
Industrial
95%, 10-30nm

Purity:>95wt%
ID: 5-10nm
OD: 10-30nm
Length: 10-30µm
SSA: >110m²/g
ASH: <5.0wt%
Tap density: 0.14 g/cm³
True density: ~2.1g/cm³
Making method:CVD
Color: Black
Min Order: 1kg

TNIM6**Industrial MWCNTs**

MWCNTs Purity:>95wt%
Industrial ID: 5-10nm
 95%, 20-40nm OD: 20-40nm
 Length: 10-30µm
 SSA: >80m²/g
 ASH: <5.0wt%
 Tap density: 0.16 g/cm³
 True density: ~2.1g/cm³
 Making method:CVD
 Color: Black
 Min Order: 1kg

TNIM8 **Industrial MWCNTs**
 MWCNTs Purity:>95wt%
Industrial ID: 5-15nm
 95%, >50nm OD: >50nm
 Length: 10-20µm
 SSA: >60m²/g
 ASH: <5.0wt%
 Tap density: 0.18 g/cm³
 True density: ~2.1g/cm³
 Making method:CVD
 Color: Black
 Min Order: 1kg

TNIMH4 **Industrial MWCNTs, -OH functionalized**
 MWCNTs Purity:>95wt%
Industrial -OH Content: 2.48wt%
-OH ID: 5-10nm
Functionalized OD: 10-30nm
 95%, 10-30nm Length: 10-30µm
 SSA: >110m²/g
 ASH: <5.0wt%
 Tap density: 0.14 g/cm³
 True density: ~2.1g/cm³
 Making method:CVD
 Color: Black
 Min Order: 1kg

TNIMH6 **Industrial MWCNTs, -OH functionalized**
 MWCNTs Purity:>95wt%
Industrial -OH Content: 1.63 wt%
-OH ID: 5-10nm
Functionalized OD: 20-40nm
 95%, 20-40nm Length: 10-30µm
 SSA: >80m²/g
 ASH: <5.0wt%

Tap density: 0.16 g/cm³
 True density: ~2.1g/cm³
 Making method:CVD
 Color: Black
 Min Order: 1kg

TNIMH8	Industrial MWCNTs, -OH functionalized
MWCNTs	Purity:>95wt%
Industrial	-OH Content:0.76wt%
-OH	ID: 5-15nm
Functionalized	OD: >50nm
95%, >50nm	Length: 10-20μm
	SSA: >60m ² /g
	ASH: <5.0wt%
	Tap density: 0.18 g/cm ³
	True density: ~2.1g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 1kg
TNIMC4	Industrial MWCNTs, -COOH functionalized
MWCNTs	Purity:>95wt%
Industrial	-COOH Content: 1.55wt%
-COOH	ID: 5-10nm
Functionalized	OD: 10-30nm
95%, 10-30nm	Length: 10-30μm
	SSA: >110m ² /g
	ASH: <5.0wt%
	Tap density: 0.14 g/cm ³
	True density: ~2.1g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 1kg
TNIMC6	Industrial MWCNTs, -COOH functionalized
MWCNTs	Purity:>95wt%
Industrial	-COOH Content: 1.43 wt%
-COOH	ID: 5-10nm
Functionalized	OD: 20-40nm
95%, 20-40nm	Length: 10-30μm
	SSA: >80m ² /g
	ASH: <5.0wt%
	Tap density: 0.16 g/cm ³
	True density: ~2.1g/cm ³
	Making method:CVD
	Color: Black

Min Order: 1kg

TNIMC8	Industrial MWCNTs, -COOH functionalized
MWCNTs	Purity:>95wt%
Industrial	-COOH Content: 0.51wt%
-COOH	ID: 5-15nm
Functionalized	OD: >50nm
95%, >50nm	Length: 10-20 μ m
	SSA: >60m ² /g
	ASH: <5.0wt%
	Tap density: 0.18 g/cm ³
	True density: ~2.1g/cm ³
	Making method:CVD
	Color: Black
	Min Order: 1kg

6 CNTs Arrays

Product Model	Description
TNWAD4	Multi walled Carbon Nanotube Arrays (Chemical vapor deposition method)
	Purity:>98wt%
	Shape:Disc
	Size: Φ 4 inch
	Height: 10 - 1000 μ m
	No. of Walls:3-7
	Diameter :3-10nm
	Density: \leq 0.3 g/cm ³
	SSA: ~20 m ² /g
	EC: 10 ³ S/m
	Substrates:Monocrystalsilicon/ Quartz/Stainless steel/copper(Quartz,Stainless steel pieces,Copper array need extra \$16 fee per piece)
TNWAD2	Multi walled Carbon Nanotube Arrays (Chemical vapor deposition method)
	Purity:>98wt%
	Shape:Disc
	Size: Φ 2 inch
	Height: 10 - 1000 μ m
	No. of Walls:3-7
	Diameter :3-10nm
	Density: \leq 0.3 g/cm ³
	SSA: ~20 m ² /g
	EC: 10 ³ S/m

Substrates:Monocrystalsilicon/ Quartz/Stainless steel/copper(Quartz,Stainless steel pieces,Copper array need extra \$16 fee per piece)

TNWAD22

**Multi walled Carbon Nanotube Arrays
(Chemical vapor deposition method)**

Purity:>98wt%

Shape: Rectangle

Size: 2cm*2cm

Height: 10 - 1000 μ m

No. of Walls:3-7

Diameter :3-10nm

Density: ≤ 0.3 g/cm³

SSA: ~ 20 m²/g

EC: 10³ S/m

Substrates:Monocrystalsilicon/ Quartz/Stainless steel/copper(Quartz,Stainless steel pieces,Copper array need extra \$16 fee per piece)

TNWAD11

**Multi walled Carbon Nanotube Arrays
(Chemical vapor deposition method)**

Purity:>98wt%

Shape: Rectangle

Size: 1cm*1cm

Height: 10 - 1000 μ m

No. of Walls:3-7

Diameter :3-10nm

Density: ≤ 0.3 g/cm³

SSA: ~ 20 m²/g

EC: 10³ S/m

Substrates:Monocrystalsilicon/ Quartz/Stainless steel/copper(Quartz,Stainless steel pieces,Copper array need extra \$16 fee per piece)

TNCA22

Transferred Carbon Nanotube Arrays

Purity:>95wt%

Shape: Rectangle

Size: 2cm*2cm

Height: 10 - 1000 μ m

Density: ≤ 0.3 g/cm³

SSA: ~ 20 m²/g

EC: 10³ S/m

Metal/Plastic/Glass/Cloth/Paper/Double shift

TNCA11

Transferred Carbon Nanotube Arrays

Purity:>95wt%

Shape: Rectangle

Size: 1cm*1cm
 Height: 10 - 1000 μ m
 Density: ≤ 0.3 g/cm³
 SSA: ~ 20 m²/g
 EC: 10³ S/m
 Metal/Plastic/Glass/Cloth/Paper/Double shif

7 CNTs Cloths

Product Model	Description
TNCP	CNTs Paper Size: Diameter $\Phi 12$ cm Thickness: 50-60 μ m, the remaining thickness can be customized Strength: 10-15Mpa Metal Content: <1.5% Flexibility: Can be repeated bended Conductivity: $2.5-3.5 \times 10^3$ S/m
TNCB	CNTs Paper Size: 10*10cm Thickness: 50/60/130/170 μ m; Adjustable Metal Content: <0.5% Strength: 5-10MPa Flexibility: brittle Conductivity: 10 ² S/m
TNHCF	High-conductivity CNTs Film Size: 10*10cm Thickness: 10-15 μ m Metal Content: <10% Strength: 60-120MPa Flexibility: Can be repeated bended Conductivity: $3-8 \times 10^4$ S/m
TNMCF	CNTs Metal Composite Film (Cu, Ni, etc) Size: 10*10cm Thickness: 15-20 μ m Metal Content: >10% Strength: 50-100MPa Flexibility: Can be repeated bended Conductivity: $>3 \times 10^5$ S/m
TNHCA	High-conductivity CNTs Film Tape

Size: the width:1cm ;the tength:>1m
 Thickness:10-15um
 Metal Content: <10%
 Strength: 60-100MPa
 Flexibility: Can be repeated bended
 Conductivity:3-8×10⁴S/m

TNMCA	CNTs Metal Composite Film Tape (Cu,Ni)
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Size: the width:1cm ;the tength :>1m
 Thickness:15-20um
 Metal Content: >10%
 Strength: 50-100MPa
 Flexibility: Can be repeated bended
 Conductivity:>3×10⁵S/m

8 CNTs Fibers

Product Model	Description
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TNF400	Carbon Nanotubes Fibers
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Length:1-1000 m
 Diameter :100 ±10%μm
 Strength:310-500 MPa
 Modulus: 4-6 GPa
 Density: 0.5-0.7g/cm³
 Strain: 20-30 %
 EC: 1×10⁵~2×10⁵S/m

TNF800	Carbon Nanotubes Fibers
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Length:1-20 m
 Diameter :5-12 μm
 Strength:800-1000 MPa
 Modulus: 50-100 GPa
 Density: 0.3-0.5 g/cm³
 Strain: 2-3.5 %
 EC: 5×10⁴~7×10⁴S/m

TNF1000	Carbon Nanotubes Fibers
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Length:1-20 m
 Diameter :5-12 μm
 Strength:1000-1200 MPa
 Modulus: 50-100 GPa
 Density: 0.5-0.8 g/cm³

Strain: 2-3.5 %
 EC: $5 \times 10^4 \sim 7 \times 10^4$ S/m

TNF1200	Carbon Nanotubes Fibers Length: 1-20 m Diameter : 5-12 μ m Strength: 1200-1500 MPa Modulus: 50-100 GPa Density: 0.8-1.0 g/cm ³ Strain: 2.5-3.5 % EC: $5 \times 10^4 \sim 7 \times 10^4$ S/m
TNFCU	CNTs Fibers Cu Composite Wires Coating Thickness: 1 μ m Diameter : 10-30 μ m Strength: >600 MPa Density: 2-4 g/cm ³ EC: 1×10^7 S/m
TNFAG	CNTs Fibers Ag Composite Wires Coating Thickness: 1 μ m Diameter : 10-30 μ m Strength: >600 MPa Density: 2-4 g/cm ³ EC: 1.5×10^7 S/m
TNFAU	CNTs Fibers Au Composite Wires Coating Thickness: 1 μ m Diameter : 10-30 μ m Strength: >600 MPa Density: 2-4 g/cm ³ EC: 1×10^7 S/m
TNFPET	CNTs Fibers PET Composite Wires Coating Thickness: 1 μ m Diameter : 10-40 μ m Density: 2-4 g/cm ³ Flexibility : repeated bended ≥ 100 times
TNFPI	CNTs Fibers PI Composite Wires Coating Thickness: 1 μ m Diameter : 10-40 μ m Density: 2-4 g/cm ³ Flexibility : repeated bended ≥ 100 times
TNFPU	CNTs Fibers PU Composite Wires Coating Thickness: 1 μ m Diameter : 10-40 μ m Density: 2-4 g/cm ³ Flexibility : repeated bended ≥ 100 times

TNFPEI	CNTs Fibers PEI Composite Wires Coating Thickness:1μm Diameter :10-40 μm Density:2-4g/cm ³ Flexibility : repeated bended ≥100 times
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9 CNTs Dispersant / Dispersion / Paste

Product Model	Description
TNWDIS	CNTs Water Dispersant Aromatic modified polyethyleneglycol ether in aqueous solution, Non-volatile matter: 90 %
TNADIS	CNTs Alcohol Dispersant Powder polymer dispersant
TNEDIS	CNTs Ester Dispersant Solution of a high molecular weight block Copolymer with pigment affinity groups, Non-volatile matter:45 %
TNDDIS	CNTs DMF Dispersant Powder polymer dispersant, especially suitable for carbon nanotubes dispersion in N, N - dimethyl formamide
TNWDSR CNTs: TNSR	High Purity SWCNTs Aqueous Dispersion SWNT Content: 0.15 wt% Composition: TNSR、 non-ionic surfactant、 H ₂ O Stability: centrifuge treatment for 0.5 hour with 2000 rotation/min
TNWSSR CNTs: TNSSR	Short High Purity SWCNTs Aqueous Dispersion Short SWNT Content: 0.15 wt% Composition:TNSSR、 non-ionic surfactant、 H ₂ O Stability:centrifuge treatment for 0.5 hour with 2000 rotation/min
TNWDSRC CNTs: TNSRC	-COOH Functionalized High Purified SWCNTs Aqueous Dispersion SWNT-COOH Content:0.15wt% Composition: TNSRC、 non-ionic surfactant、 H ₂ O Stability: centrifuge treatment for 0.5 hour with 2000 rotation/min
TNNSDR	High Purity SWCNTs NMP Dispersion

CNTs: TNSR SWNT Content: 0.2 wt%
 Composition: TNSR、 non-ionic surfactant、 NMP
 Steability: centrifuge treatment for 0.5 hour
 with 2000 rotation/min

TNWDM MWCNTs Aqueous Dispersion

CNTs:
 TNM2 TNM8 MWCNTs Content:
 TNM2 2 wt % OD: 8-15nm
 TNM8 8 wt % OD: >50nm
 Composition: TNM2 TNM8, non-ionic surfactant,
 H₂O Steability: centrifuge treatment for 0.5 hour
 with 2000 rotation/min

TNDDM MWNTs N,N-Dimethylformamide Dispersion

CNTs:
 TNM2 TNM8 MWCNTs Content:
 TNM2 2 wt % OD: 8-15nm
 TNM8 8 wt % OD: >50nm
 Composition: TNM2 TNM8, dimethylformamide,
 polymers, dispersants Steability: centrifuge treatment
 for 0.5 hour with 2000 rotation/min

TNNDM MWNTs N-Methyl-2-pyrrolidone Dispersion

CNTs:
 TNM2 TNM8 MWCNTs Content:
 TNM2 2 wt % OD: 8-15nm
 TNM8 8 wt % OD: >50nm
 Composition: TNM2 TNM8, NMP, polymers,
 dispersants Steability: centrifuge treatment for 0.5
 hour with 2000 rotation/min

TNNPSR High Purity SWCNTs NMP Paste

CNTs: TNSR SWNT Content: 0.25wt%
 Composition: TNSR、 non-ionic surfactant、 NMP

TNWPM MWCNTs Aqueous Paste

CNTs:
 TNIM2 TNIM8 MWCNTs Content:
 TNIM2 2 wt % OD: 8-15nm
 TNIM8 10 wt % OD: >50nm
 Composition: TNIM2 TNIM8, water, dispersant

TNAPM MWNTs Isopropanol Paste

CNTs: TNIM8 TNIM8 10wt % OD: >50nm
 Composition: TNIM8, isopropanol, dispersant

TNEPM MWNTs Butyl Acetate Paste

CNTs:
 TNIM2 TNIM8 MWCNTs Content:
 TNIM2 2 wt % OD: 8-15nm
 TNIM8 10 wt % OD: >50nm
 Composition: TNIM2 TNIM8, butylacetate,
 dispersant

TNDPM MWNTs Dimethylformamide Paste

CNTs: MWCNTs Content:
 TNIM2 TNIM8 TNIM2 2 wt % OD: 8-15nm
 TNIM8 10 wt % OD: >50nm
 Composition: TNIM2 TNIM8, dimethylformamide,
 dispersant

TNNPM MWNTs N-Methyl-2-pyrrolidone Paste

CNTs: MWCNTs Content:
 TNIM2 TNIM8 TNIM2 2 wt % OD: 8-15nm
 TNIM8 10 wt % OD: >50nm
 Composition: TNIM2 TNIM8,
 N-Methyl-2-pyrrolidone, dispersant

10 CNTs Conductive Filler

Product Model	Description
CF-0	Easy Dispersible CNTs
For Coating	Composition: CNTs/Dispersant: 90/10 OAN: 200-220ml Refined linseed oil/100g CF-0 SSA: 35-45 m ² /g Volume Resistivity: ~10 ⁻³ Ω·cm Min Order: 1kg
CF-2	CNTs / Titanium Dioxide Conductive Filler
For Coating	Composition: CNTs / Titanium Dioxide: 10/90 OAN: 45-50ml Refined linseed oil/100g CF-2 SSA: 14-16 m ² /g Volume Resistivity: < 5 Ω·cm Min Order: 1kg
CF-2N	CNTs / Titanium Dioxide Conductive Filler
For Coating	Composition: CNTs / Titanium Dioxide: 20/80 OAN: 60-65ml Refined linseed oil /100g CF-2N SSA: > 17-19 m ² /g Volume Resistivity: < 2 Ω·cm Min Order: 1kg
CF-6	CNTs / Titanium Dioxide Conductive Filler
For Coating	Composition: CNTs / Titanium Dioxide: 6/94 SSA: > 15-17 m ² /g Volume Resistivity: < 5 Ω·cm Min Order: 1kg
CF-3T	CNTs / Carbon Black Conductive Filler

For Coating CNTs/ Hiblack 40B2 (Hiblack 40B2) :40/60
 OAN: 140-160 ml Refined linseed oil /100g CF-3T
 SSA:65-75m²/g
 Volume Resistivity: ~10⁻³ Ω·cm
 Min Order: 1kg

CF-3S CNTs / Carbon Black Conductive Filler

For Plastic CNTs/ Carbon black Chezacarb B (Carbon black Chezacarb B)
 :40/60
 OAN: 420-440ml Refined linseed oil /100g CF-3S
 SSA:540-560 m²/g
 Volume Resistivity:< 0.01 Ω·cm

CF-4 CNTs / Polystyrene Conductive Filler

For Plastic CNTs/ Polystyrene microsphere:20/80
 OAN: 130-150ml Refined linseed oil/100g CF-4
 SSA:11-13m²/g
 Volume Resistivity:< 10 Ω·cm
 Min Order: 1kg

11 CNTs/Polymer Composite

Product Model	Description
TNPA6	CNTs/PA6 Masterbatches CNTs Content: 15wt% CNTs OD: 10-20nm Matrix resin: PA6 Volume Resistivity:0.94 ohm.cm Min Order: 5kg
TNPP	CNTs/PP Masterbatches CNTs Content: 20wt% CNTs OD: 10-20nm Matrix resin: Homopolymer PP MFI(g/10min)(230°C, 2.16Kg):12.3 Volume Resistivity:0.3 ohm.cm Min Order: 5kg
TNHDPE	CNTs/HDPE Masterbatches CNTs Content: 20wt% CNTs OD: 10-20nm Matrix resin: HDPE 5000S Volume Resistivity: 1 ohm.cm

Min Order: 5kg

TNHIPS**CNTs/HIPS Masterbatches**

CNTs Content: 10wt%
CNTs OD: 10-20nm
Matrix resin: HIPS HIE
Rubber: SBS
Rubber Content: 10wt%
MFI(g/10min) (200°C, 5kg):2.7
Volume Resistivity: 1.5 ohm.cm
Min Order: 5kg

TNLLDPE**CNTs/LLDPE Masterbatches**

CNTs Content: 20wt%
CNTs OD: 10-20nm
Matrix resin: LLDPE 7042
Volume Resistivity: 1.1ohm.cm
Min Order: 5kg

TNABS**CNTs/ABS Masterbatches**

CNTs Content: 10wt%
CNTs OD: 10-20nm
Matrix resin: ABS
Volume Resistivity:1.9 ohm.cm
Min Order: 5kg

TNPC**CNTs/PC Masterbatches**

CNTs Content: 25wt%
CNTs OD: 10-20nm
Matrix resin: PC
Min Order: 5kg

TNEPO**CNTs-based Epoxy Resin Masterbatches**

CNTs: TNIM8

CNTs/ Dispersant/ Epoxy resin: 4.5/2.4/93.1
CNTs OD: >50nm
Epoxy model number: D.E.R.TM 383 liquid
bisphenol A epoxy resin, The DOW chemical
company
D.E.R.TM 383 Epoxide equivalent weight (g/eq):
176-183
D.E.R.TM 383 Viscosity @ 25°C (mPa·s):
9000-10500
Min Order: 5kg

12 CNTs Functional Coating

Product Model	Description
TNRC-1	<p>CNTs Thermal Radiation Water-based Coating</p> <p>Types:Low temperature drying paint Film-forming resin: Waterborne polyurethane Surface resistance(Ω): 10E6-10E8 Min Order: 3kg</p>
TNRC-2	<p>CNTs Thermal Radiation Water-based Coating</p> <p>Types:Medium temperature baking paint Film-forming resin: Waterborne amino acrylic resin Surface resistance(Ω): 10E8-10E10 Min Order: 3kg</p>
TNRC-3	<p>CNTs Thermal Radiation Water-based Coating</p> <p>Types:Medium temperature baking painting ink Film-forming resin: Waterborne amino acrylic resin Surface resistance(Ω): 10E8-10E10 Min Order: 3kg</p>
TNTC	<p>CNTs Transparent Static Conductive Water-based Coating</p> <p>Film-forming resin: polyurethane emulsion Surface resistance(Ω/\square): 10E5-10E6 80% transmittance including substrate Min Order: 1kg</p>
TNHC	<p>CNTs Conductive and Heating Coating</p> <p>Coating volume resistivity ($\Omega.cm$):<0.2 CNTs content in coating layer (%):45 Min Order: 1kg</p>

13 CNTs Composite Conductive Agent in Lithium Ion Batteries

Product Model	Description
TNCC	<p>CNTs Composite Conductive Agent in Lithium Ion Batteries</p> <p>CNTs OD: 50-80nm CNT Length:10-15μm SSA: 80m²/g pH: <9</p>

Min Order: 1kg

14 Fullerene

Product Model	Description
TNC6095	Fullerene C60 Purity: 95wt% Molecular weight: 720.67
TNC6098	Fullerene C60 Purity: 98wt% Molecular weight: 720.67
TNC6099	Fullerene C60 Purity: 99wt% Molecular weight: 720.67
TNC60995	Fullerene C60 Purity: 99.5wt% Molecular weight: 720.67
TNC60999	Fullerene C60 Purity: 99.9wt% Molecular weight: 720.67
TNC7095	Fullerene C70 Purity: 95wt% Molecular weight:840.78
TNC7098	Fullerene C70 Purity: 98wt% Molecular weight:840.78
TNC7099	Fullerene C70 Purity: 99wt% Molecular weight:840.78
TNFOL	Fullerenols Molecular formula: $C_{60}(OH)_n \cdot mH_2O$ Number of hydroxyl:24-28

15 Nano-ceramic Powders

Product Model	Description
TNSi3N4	Si3N4 Purity: 97wt% SSA: 115m ² /g Particle size: 25 nm Total oxygen content: <0.2% Color: White
TNTiN	TiN

Purity: 97wt%
SSA: 80m²/g
Particle size: 20 nm
Total oxygen content: <1%
Color: Black

TNAIN

AlN

Purity: 97wt%
SSA: 50m²/g
Particle size: 40 nm
Total oxygen content: <1%
Color: White

TNSiC

SiC

Purity: 97wt%
SSA: 90m²/g
Particle size: 40 nm
Total oxygen content: <0.8%
Color: Gray

TNTiC

TiC

Purity: 97wt%
SSA: 23m²/g
Particle size: 50nm
Total oxygen content: <1%
Color: Black

TNZrC

ZrC

Purity: 97wt%
SSA: 11m²/g
Particle size: 20 nm
Total oxygen content: <1%
Color: Black

TNB4C

B4C

Purity: 97wt%
SSA: 75m²/g
Particle size: 50 nm
Total oxygen content: <0.8%
Color: Black gray

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