



Skyspring Nanomaterials, Inc.

2935 Westhollow Drive, Houston, TX 77082, USA

Email: sales@ssnano.com | www.ssnano.com

Ph: 281-870-1700 | Fax: 281-870-8002

Catalog

- Nanomaterials from Skyspring

SkySpring Nanomaterials offers nanoparticles, nanopowders, micron powders, and CNTs (carbon nanotubes) in small quantity for researchers and in bulk order for industry groups. Our expertise in the properties, applications and various manufacturing of advance and engineered materials allows us to meet the needs of our customers.

- Nanoparticles:

- (1) Elements: Metals and Non-metal Elements
- (2) Oxides and Rare Earth Oxides
- (3) Carbides, Nitrides, Borides, and Alloys...
- (4) Surface Coated Oxides

- Nanotubes

- (1) SWNTs
- (2) MWNTs
- (3) -OH and -COOH functionalized CNTs
- (4) Length tailored CNTs

Please email us at sales@ssnano.com for custom-made nanomaterials for your applications.

ELEMENTS

Product # & Chemical	Description	Price
0115CY	Silver Nanoparticle	\$168/25g
Ag	Purity: 99.95% (trace metals basis)	\$395/100g
Flammable,	Appearance: Black nanopowder	
UN 3089	APS: ~100 nm	
	SSA: ~5 m ² /g	
	Morphology: spherical	
	Bulk density: 0.50 - 0.60 g/cm ³	
	True density: 10.5 g/cm ³	
0118XH	Silver Nanoparticle	\$130/10g
Ag	Purity: 99.95% (trace metals basis)	\$234/25g
Flammable,	Appearance: Black nanopowder	\$593/100g
UN 3089	APS: 20-30 nm	
	SSA: ~20 m ² /g	
	Morphology: spherical	
	Synthesis Process: Wet Chemistry	
	True density: 10.5 g/cm ³	

Updated on Aug. 01, 2011



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0120XH	Silver Nanoparticle	\$130/10g
Ag	Purity: 99.95% (trace metals basis)	\$234/25g
Flammable, UN 3089	Appearance: Black nanopowder	\$593/100g
	APS: 20-30 nm	
	SSA: ~20 m ² /g	
	Morphology: spherical	
	Synthesis Process: Wet Chemistry	
	True density: 10.5 g/cm ³	
	Coated with ~0.2wt% PVP (Poly Viny Pyrrolidone) surfactant for low oxygen content and easy dispersing.	
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0121XH	Silver Nanoparticle	\$109/10g
Ag	Purity: 99.9% (trace metals basis)	\$196/25g
Flammable, UN 3089	Appearance: Black nanopowder	\$497/100g
	APS: 50-60 nm	
	SSA: ~12 m ² /g	
	Morphology: spherical	
	Bulk density: 0.35 g/cm ³	
	True density: 10.5 g/cm ³	
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0123NJ	Silver Nanoparticle	\$172/25g
Ag	Silver (Ag) with oleic acid coated*	\$382/100g
Flammable, UN 3089	Purity: 99.95% (trace metals basis)	\$1292/500g
	Appearance: Black nanopowder	
	APS: 30-50 nm	
	SSA: 5-10 m ² /g	
	Morphology: spherical	
	Synthesis Process: Wet Chemistry	
	* Coated with ~0.2wt% oleic acid coated for easy dispersing, and eliminating oxygen content and aggregation.	
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0126SH	Silver Nanoparticle	\$276/25g
Ag	Silver nanopowder coated with polymer	\$650/100g
Flammable, UN 3089	Purity of Ag: 99.99%	
	Particle size of Ag nanoparticles: ≤ 15 nm	
	Composition: 10% silver + 90% polymer	
	Dispersibility: dispersible in water and organic solvents	
	Color: black	
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0127SH	Silver Nanoparticle	\$349/25g
Ag	Silver nanopowder coated with polymer	\$820/100g
Flammable, UN 3089	Purity of Ag: 99.99%	
	Particle size of Ag nanoparticles: ≤ 15 nm	
	Composition: 25% silver + 75% polymer	
	Dispersibility: dispersible in water and organic solvents	
	Color: black	
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0200SJ	Aluminum Nanoparticle	\$92/5g
Al	Purity: 99.9% trace metals basis	\$216/25g
Flammable, UN 1396	Appearance: Black nanopowder	\$468/100g
	APS: 18 nm	
	SSA: 40-60 m ² /g	
	Morphology: spherical	
	Bulk density: 0.08-0.2 g/cm ³	
	True density: 2.7 g/cm ³	



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0220XH	Aluminum Nanoparticle	\$67/10g
Al	Purity: 99.9% trace metals basis	\$121/25g
UN 1396	Appearance: Black nanopowder	\$338/100g
	APS: 40-60 nm	
	SSA: 20-48 m ² /g	
	Morphology: spherical	
	Bulk density: 0.08-0.2 g/cm ³	
	True density: 2.7 g/cm ³	

0221XH	Aluminum Nanoparticle	\$60/10g
Al	Purity: 99.9% trace metals basis	\$108/25g
UN 1396	Appearance: Black nanopowder	\$302/100g
	APS: 60-80 nm	
	SSA: 9-18 m ² /g	
	Morphology: spherical	
	Bulk density: 0.17 g/cm ³	
	True density: 2.7 g/cm ³	

0223XH	Aluminum Nanoparticle	\$67/10g
Al	Purity: 99.9% trace metals basis	\$121/25g
UN 1396	Appearance: Black nanopowder	\$338/100g
	APS: 40-60 nm	
	SSA: 20-48 m ² /g	
	Morphology: spherical	
	Content of oxygen [O]: <0.05wt%	
	Bulk density: 0.08-0.2 g/cm ³	
	True density: 2.7 g/cm ³	

0310DX	Gold Nanoparticle	\$378/1g
Au	Purity: 99.99%	
	Appearance: Black nanopowder	
	APS: 50-100 nm	
	SSA: ~3.5 m ² /g	
	Color: Gold	
	Morphology: spherical	
	Bulk density: ~1.3 g/cm ³	
	True density: 19.32 g/cm ³	

0326SH	Gold Nanoparticle	\$491/5g
Au	Gold nanoparticles coated with polymer	
	Purity of Au: 99.99%	
	Average Particle size: 15 nm	
	Composition: 10% gold + 90% polymer	
	Dispersibility: dispersible in various organic solvents and aqueous solutions	
	Color: dark red	
	Storage: hermetically sealed	

0400BZ	Boron powder	\$193/g
B	Purity: 99.9999%	\$578/5g
	APS: 1-2 um	
	Color: Brown	
	Bulk density (g/cm ³): 1.73	
	Melt Point (°C): 2400	
	Boiling point (°C): 2700	
	Hardness (Mohs): 9.5	



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0401BZ	Boron powder	\$169/g
B	Purity: 99.999%	\$506/5g
	APS: 1-2 um	
	Color: Brown	
	Bulk density (g/cm ³): 1.73	
	Melt Point (°C): 2400	
	Boiling point (°C): 2700	
	Hardness (Mohs): 9.5	
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0402BZ	Boron powder	\$109/5g
B	Purity: 99.99%	\$437/25g
	Particle Size (D50): ~15 um	
	Color: Black	
	Bulk density (g/cm ³): 2.4	
	Melt Point (°C): 2400	
	Boiling point (°C): 2700	
	Hardness (Mohs): 9.5	
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0403BZ	Boron Powder	\$86/5g
B	Purity: 99.9%	\$262/25g
	Particle Size (D50): ~15 um	
	Color: Black	
	Bulk density (g/cm ³): 2.4	
	Melt Point (°C): 2400	
	Boiling point (°C): 2700	
	Hardness (Mohs): 9.5	
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0410DX	Boron Nanoparticle	\$296/25g
B	Appearance: Brown nanopowder	\$791/100g
UN 3178	Purity: 99.9%	
	APS: <80nm	
	Ture density (g/cm ³): 2.34	
	Morphology: nearly spherical	
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0470DX	Bismuth Nanoparticle	\$220/25g
Bi	Appearance: Black nanopowder	\$650/100g
UN 3089	Purity: 99.9%	
	APS: <100nm	
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0510HZ	Diamond Nanoparticle	\$69/5g
C	Explosion Synthesized	\$217/25g
	Purity: > 95%	\$734/100g
	Appearance: Grey nanopowder	
	APS: 3-4 nm	
	SSA: ~282 m ² /g	
	Functional group on surface: --OH, --CN, --COOH-C-O-C, --C=O	
	Conductivity: 7.7x10 ⁷ , 0.1-2 omu.cm (Born dopped)	
	Hydrophilia degree: -3100 MJ/mol.g	
	Relative magnetic susceptibility: <1x10 ⁻⁸ m ² /kg	
	Initial oxidization temperature: 803 K	
	Morphology: spherical	
	True density: 3.05-3.30 g/cm ³	



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0511HZ	Diamond Nanoparticle	\$58/5g
C	Explosion Synthesized	\$181/25g
	Purity: > 93%	\$614/100g
	Appearance: Grey nanopowder	
	APS: 3-4 nm	
	SSA: ~282 m ² /g	
	Functional group on surface: --OH, --CN, --COOH-C-O-C, --C=O	
	Conductivity: 7.7x10 ⁷ , 0.1-2 omu.cm (Born dopped)	
	Hydrophilia degree: -3100 MJ/mol.g	
	Relative magnetic susceptibility: <1x10 ⁻⁸ m ² /kg	
	Initial oxidization temperature: 803 K	
	Morphology: spherical	
	True density: 3.05-3.30 g/cm ³	
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0512HZ	Diamond Nanoparticle	\$93/25g
C	Explosion Synthesized	\$314/100g
	Purity: 55-75 %	
	Appearance: Black nanopowder	
	APS: 4-15 nm	
	SSA: ~350 m ² /g	
	Morphology: spherical and flaky	
	Bulk density: 0.16 g/cm ³	
	True density: 3.05-3.30 g/cm ³	
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0520BX	Graphite Nanoparticle	\$138/25g
C	Explosion Synthesized	\$455/100g
	Appearance: Black nanopowder	
	APS: 1.5-3 nm	
	SSA: 540-650 m ² /g	
	Oxidization temperature: 710 K	
	Morphology: spherical	
	True density: 1.2-2.8 g/cm ³	
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0521QZ	Graphite Nanoparticle	\$170/100g
C	Graphite (C, natural flake)	\$383/500g
	Appearance: Black powder	
	D50: 1 um	
	Fixed Carbon: 99+%	
	Ash:<1%	
	Morphology: flake	
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0541DX	Graphene Nanopowder	\$109/25g
C	Graphene Platelet Nanopowder	\$247/100g
	Appearance: Black powder	
	Thickness: 6-8 nm	
	Average Particle Diameter: 15 micron	
	Surface Area: 120-150 m ² /g	
	Carbon: 99.5+%	
	Morphology: flake	



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0544DX	Graphene Nanopowder	\$108/25g
C	Graphene Platelet Nanopowder	\$245/100g
	Appearance: Black powder	
	Thickness: 11-15 nm	
	Average Particle Diameter: 15 micron	
	Surface Area: 50-80 m ² /g	
	Carbon: 99.5+%	
	Morphology: flake	
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0530HT	Super Activated Carbon Nanoparticle	\$134/100g
C	Appearance: Black nanopowder	\$293/500g
	APS: <100 nm	\$488/1kg
	Super absorption capability	
	SSA: 1300 m ² /g	
	Iodine absorption: 1200 mg/g	
	H ₂ O: <1%	
	Ash: <2%	
	Color: black	
	PH: 7-9	
	Morphology: spherical	
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0610SJ	Cobalt Nanoparticle	\$65/5g
Co	Partially passivated for safe shipping, [O]: ~10%	\$118/25g
UN 3089	Purity: 99.8% (trace metals basis)	\$352/100g
	Appearance: Black nanopowder	
	APS: 25-30 nm	
	SSA: 40 - 60 m ² /g	
	Color: black	
	Morphology: spherical	
	Bulk density: 0.10 - 0.25 g/cm ³	
	True density: 8.92 g/cm ³	
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0811DX	Copper Nanoparticle	\$97/100g
Cu	Purity: 99.5% trace metals basis	\$291/500g
UN 3089	Appearance: Sienna nanopowder	\$459/1kg
	APS: 300 nm	
	SSA: ~6 m ² /g	
<hr/>		
0810DX	Copper Nanoparticle	\$97/100g
Cu	Appearance: Sienna nanopowder	\$291/500g
UN 3089	Purity: 99.5% trace metals basis	\$459/1kg
	APS: 500 nm*	
	SSA: 3.0 m ² /g	
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0800SJ	Copper Nanoparticle	\$116/25g
Cu	Purity: 99.8% (metal basis)	\$309/100g
UN 3089	Color: black brown nanopowder	
	APS: 25 nm	
	SSA: 30 - 50 m ² /g	
	Morphology: spherical	
	Bulk density: 0.15 - 0.35 g/cm ³	
	True density: 8.94 g/cm ³	



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0820XH	Copper Nanoparticle	\$87/25g
Cu	Purity: 99.9% trace metals basis	\$244/100g
UN 3089	Appearance: Saddle brown nanopowder	
	APS: 40-60 nm	
	SSA: ~12 m ² /g	
	Morphology: spherical	
	Bulk density: 0.19 g/cm ³	
	True density: 8.9 g/cm ³	

0821XH	Copper Nanoparticle	\$77/25g
Cu	Purity: 99.9% trace metals basis	\$215/100g
UN 3089	Appearance: Saddle brown nanopowder	
	APS: 60-80 nm	
	SSA: 6-8 m ² /g	
	Morphology: spherical	
	Bulk density: 0.21 g/cm ³	
	True density: 8.9 g/cm ³	

0851HN	Copper Nanoparticle	\$128/100g
Cu	An oil-soluble copper nanoparticles well dispersed in organic media. It can be further dispersed in toluene, chloroform, lubricating greases, resin, rubber, coatings, and plastic. The particles have very narrow particle size distribution from 5 to 7 nm. It is a perfect anti-wear and friction reducing additive in lubricants and grease to fix scratched and worn surface.	\$267/500g
	Contents of Cu (%): 14	\$384/1kg
	Particle size (nm): 5-7	

0915SJ	Iron Nanoparticle	\$60/5g
Fe	Purity: 99.9% trace metals basis	\$112/25g
UN 3089	Appearance: Black nanopowder	\$337/100g
	APS: 20 nm	
	SSA: 40-60 m ² /g	
	Morphology: spherical	
	Bulk density: 0.1-0.25 g/cm ³	
	True density: 7.90 g/cm ³	

0920XH	Iron Nanoparticle	\$87/25g
Fe	Purity: 99.9% trace metals basis	\$244/100g
UN 3089	Appearance: Black nanopowder	\$854/500g
	APS: 40-60 nm	
	SSA: 6-13 m ² /g	
	Morphology: spherical	
	Bulk density: 0.36 g/cm ³	
	True density: 7.90 g/cm ³	

0921XH	Iron Nanoparticle	\$77/25g
Fe	Purity: 99.9% trace metals basis	\$215/100g
UN 3089	Appearance: Black nanopowder	
	APS: 60-80 nm	
	SSA: 7 m ² /g	
	Morphology: spherical	
	Bulk density: 0.5 g/cm ³	
	True density: 7.90 g/cm ³	



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0961XH	Iron Nanoparticle	\$171/25g
Stainless Steel	Appearance: Black nanopowder	\$455/100g
316L	APS: 60-80 nm	
UN 3089	SSA: n/a	
	Morphology: spherical	
	Bulk density: 0.5 g/cm ³	
	True density: 7.90 g/cm ³	

0990JH	Carbonyl Iron Particle	\$238/100g
Fe	Appearance: Black powder	
	CAS #: 7439-89-6	
	APS (um): 4-8*	
	Bulk Density (g/cm ³): 2.2-3.2	
	Contents (%)*:	
	Fe 99.0	
	C <0.15	
	O <0.4	
	N <0.1	

3606DX	Germanium Nanoparticles	\$711/100g
Ge	Appearance: Black powder	
	CAS #: 7440-56-4	
	APS (nm): 70-120	
	Morphology: Nearly spherical	

1021XH	Tin Nanoparticle	\$77/25g
Sn	Purity: 99.9% trace metals basis	\$215/100g
UN 3089	Appearance: Black nanopowder	
	APS: <100 nm	
	SSA: ~7 m ² /g	
	Morphology: spherical	

1110XH	Tantalum Nanoparticle	\$290/25g
Ta	Purity: 99.9% trace metals basis	\$811/100g
UN 3089	Appearance: Black nanopowder	
	APS: 60-80 nm	
	SSA:	
	Morphology: spherical	

1120XH	Titanium Nanoparticle	\$129/25g
Ti	Purity: 99.9% trace metals basis	\$361/100g
UN 2546	Appearance: Black nanopowder	
	APS: 40-60 nm	
	SSA: ~20 m ² /g	
	Morphology: spherical	
	True density: 2.86 g/cm ³	

1121XH	Titanium Nanoparticle	\$121/25g
Ti	Purity: 99.9% trace metals basis	\$338/100g
UN 2546	Appearance: Black nanopowder	
	APS: 60-80 nm	
	SSA: 13.8 m ² /g	
	Morphology: spherical	
	True density: 2.86 g/cm ³	



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9121XH	Molybdenum Nanoparticle	\$62/10g
Mo	Purity: 99.9% trace metals basis	\$112/25g
UN 3089	Appearance: Black nanopowder	\$314/100g
	APS: 60-80 nm	
	SSA: 4-10 m ² /g	
	Morphology: spherical	
	Bulk density: 0.25 g/cm ³	
	True density: 10.2 g/cm ³	

9130CN	Molybdenum Nanoparticle	\$439/kg
Mo	Purity: 99.9% trace metals basis	
UN 3089	Appearance: Black nanopowder	
	APS: 500-800 nm	
	SSA: 2-3 m ² /g	
	Morphology: flaky	

9210NG	Nickel Nanoparticle	\$119/100g
Ni	Purity: 99.9% trace metals basis	\$357/500g
UN 3089	Appearance: Black nanopowder	
	APS: 500 nm*	
	SSA: 1.2-1.6 m ² /g	
	Morphology: spherical	
	Bulk density: ~3.2 g/cm ³	
	True density: 8.9 g/cm ³	

9225SJ	Nickel Nanoparticle	\$58/5g
Ni	Purity: 99.9% trace metals basis	\$118/25g
UN 3089	Appearance: Black nanopowder	\$349/100g
	APS: 20 nm	
	SSA: 40-60m ² /g	
	Manufacturing Process: Laser evaporating	
	Morphology: spherical	
	Bulk density: 0.08-0.20g/cm ³	
	True density: 8.9 g/cm ³	

9220XH	Nickel Nanoparticle	\$87/25g
Ni	Purity: 99.9% trace metals basis	\$244/100g
UN 3089	Appearance: Black nanopowder	
	APS: 40-60 nm	
	SSA: 10-15 m ² /g	
	Morphology: spherical	
	Bulk density: 0.28 g/cm ³	
	True density: 8.9 g/cm ³	

9221XH	Nickel Nanoparticle	\$77/25g
Ni	Purity: 99.9% trace metals basis	\$215/100g
UN 3089	Appearance: Black nanopowder	
	APS: 60-80 nm	
	SSA: 8-10 m ² /g	
	Morphology: spherical	
	True density: 8.9 g/cm ³	



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9280JH	Carbonyl Nickel Nanoparticle	\$193/25g
Ni	Appearance: Black nanopowder	\$457/100g
	SSA (BET, m ² /g): 23-27	
	APS (nm): 45-55	
	Bulk Density (g/cm ³): 0.08-0.13	
	Contents (%):	
	Fe 0.03	
	C 0.3	
	O 7.0	
	others 0.01	
	Ni 92.65%	

9290JH	Carbonyl Nickel	\$66/100g
Ni	CAS #: 8049-31-8	\$152/500g
	APS (um): 2.2-2.8*	
	Bulk Density (g/cm ³): 2.2-3.2	
	Contents (%)*:	
	Fe <0.01	
	C <0.15	
	O <0.15	
	S <0.001	
	others <0.01	

9293JH	Carbonyl Nickel Coated Aluminum Powder	\$97/100g
Ni Shell, Al Core	Particle Size Range: 240-400 mesh- 94%*	\$223/500g
	Bulk Density (g/cm ³): 2.2-2.8	
	Liquidity (S/50g): 38	
	Contents (%)*:	
	Ni 80	
	Al 19	
	others 1	

9295JH	Carbonyl Nickel Iron Alloy	\$76/100g
Ni & Fe Alloy	Particle Size Range: 2.5-4.0 um*	\$175/500g
	Contents (%)*:	
	Fe 74-77	
	C 1.1	
	O 0.4	
	Ni residue	

9426SH	Platinum nanoparticles self-dispersing	\$982/5g
Pt	Platinum nanoparticles coated with polymer	
	Purity of Pt: 99.99%	
	Average Particle Size: 15 nm	
	Composition: 10% gold + 90% polymer	
	Dispersibility: dispersible in various organic solvents and aqueous solutions	
	Color: black	
	Storage: hermetically sealed	



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9710HK	Silicon Nanoparticle	\$169/25g
Si	Form: Powder	\$306/100g
UN 3089	Appearance: Yello Brown Nanopowder	
	Purity (%): 99	
	Cu Content (%): <0.45	
	Average Particle Size (nm): 50	
	Specific Surface Area (m ² /g): >80	
	Morphology: Spherical	
	Bulk Density (g/cm ³): 0.08	

9720DG	Silicon	\$188/100g
Si	CAS No.: 7440-21-3	\$391/500g
	Form: lumps	\$563/kg
	Color: silvery	
	Density (g/cm ³): 2.33	
	Purity: 99.99995% trace metals basis	
	Contents	
	Si: 99.99995%	
	P: 1.99 mg/kg	
	B: not detectable	
	Fe: 1.57 mg/kg	
	Ca: 1.15 mg/kg	
	Al: 1.41 mg/kg	

9820XH	Tungsten Nanoparticle	\$129/25g
W	Purity: 99.9% trace metals basis	\$361/100g
UN 3089	Appearance: Black nanopowder	
	APS: 40-60 nm	
	SSA: ~8 m ² /g	
	Morphology: spherical	
	Bulk density: ~3.5 g/cm ³	
	True density: 19.3 g/cm ³	

9821XH	Tungsten Nanoparticle	\$121/25g
W	Purity: 99.9% trace metals basis	\$338/100g
UN 3089	Appearance: Black nanopowder	
	APS: 80-100 nm	
	SSA: 4-8 m ² /g	
	Morphology: spherical	
	Bulk density: 1.4-4.0 g/cm ³	
	True density: 19.5 g/cm ³	

9920XH	Zinc Nanoparticle	\$87/25g
Zn	Purity: 99.9% trace metals basis	\$244/100g
UN 1436	Appearance: Black nanopowder	
	APS: 40-60 nm	
	SSA: ~12 m ² /g	
	Morphology: spherical	
	Bulk density: 0.2-0.4 g/cm ³	
	True density: 7.14 g/cm ³	



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9921XH	Zinc Nanoparticle	\$77/25g
Zn	Purity: 99.9% trace metals basis	\$215/100g
UN 1436	Appearance: Black nanopowder	
	APS: 80-100 nm	
	SSA: ~6.5 m ² /g	
	Morphology: spherical	
	Bulk density: 0.79 g/cm ³	
	True density: 7.14 g/cm ³	



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OXIDES AND COMPOUNDS

Product # & Chemical	Description	Price
1315TB AlOOH	Boehmite Nanoparticle Dispersible white nanopowder in water Grain Size: 10-20 nm D50: 170-180 nm Secondary Particle Size: 20-30 um Bulk Density: 0.4-0.6 g/ml SSA: 142.8 m ² /g Pore Volume: 0.73 cm ³ /g Average Pore Diameter: 20 nm Distribution of Pore Diameter: 2-40 nm (>95%) Calcined at 600 °C for 3 hours: Boehmite changes into gamma-Al ₂ O ₃ Weight Loss <20% Purity of gamma-Al ₂ O ₃ : 99.99% SSA: 140.9 m ² /g Pore Volume: 0.77 cm ³ /g Average Pore Diameter: 23 nm Distribution of Pore Diameter: 2-40 nm (>95%) Calcined at 1000 °C for 3 hours: SSA: 107.5 m ² /g Pore Volume: 0.80 cm ³ /g Average Pore Diameter: 32 nm Distribution of Pore Diameter: 2-80 nm (>95%)	\$128/100g \$295/500g \$395/1kg
1319NH Alpha- Al ₂ O ₃	Aluminum Oxide Nanoparticle White nanopowder APS: 40 nm SSA: ~60 m ² /g Applications: ceramic, catalyst, polishing, phosphor....	\$69/100g \$136/500g
1318DL Alpha- Al ₂ O ₃	Aluminum Oxide White powder D50: 0.5-10 um SSA: 4-11 m ² /g Applications: crystals, PDP....	\$135/100g \$282/500g \$396/1kg
1320DL Alpha- Al ₂ O ₃	Aluminum Oxide Nanoparticle White nanopowder APS: ~50 nm SSA: ~18 m ² /g Applications: ceramic, catalyst, polishing, phosphor....	\$75/100g \$157/500g \$221/1kg

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1317NH Alpha- Al ₂ O ₃	Aluminum Oxide Nanoparticle White nanopowder APS: ~150 nm SSA: ~10 m ² /g	\$69/100g \$146/500g \$216/1kg
1321DL Alpha- Al ₂ O ₃	Aluminum Oxide White powder D50: 0.3-0.8 um SSA: 6-9 m ² /g Applications: ceramic, catalyst, polishing, phosphor....	\$53/25g
1322DL Alpha- Al ₂ O ₃	Aluminum Oxide White powder D50: 0.8-1.5 um SSA: 7-10 m ² /g Applications: catalyst, ceramic, polishing, phosphor....	\$51/100g \$105/500g \$148/1kg
1324DL Alpha- Al ₂ O ₃	Aluminum Oxide White powder D50: 3.5-15 um SSA: 1-6 m ² /g Applications: ceramic, catalyst, polishing, phosphor....	\$48/100g \$100/500g \$141/1kg
1328QI Gamma- Al ₂ O ₃	Aluminum Oxide Nanoparticle White nanopowder APS: 5 nm SSA: 600 m ² /g Morphology: Fibrous	\$96/100g \$228/500g
1330DL Gamma- Al ₂ O ₃	Aluminum Oxide Nanoparticle White nanopowder D50: 20 nm SSA: 230-400 m ² /g Applications: ceramic, catalyst, polishing, phosphor....	\$52/100g \$107/500g \$151/1kg
1331DL Gamma- Al ₂ O ₃	Aluminum Oxide White powder D50: 0.4-1.5 um SSA: 150-230 m ² /g Applications: ceramic, catalyst, polishing, phosphor....	\$52/100g \$109/500g \$153/1kg
1341DL Al(OH) ₃	Aluminum Hydroxide Nanoparticle White nanopowder D50: 30-100 nm SSA: 350-450 m ² /g Applications: additives, flame retardant...	\$128/100g \$385/500g

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1342DL	Aluminum Hydroxide	\$45/100g
Al(OH) ₃	White powder	\$94/500g
	D50: 2-10 um	\$132/1kg
	SSA: 1-20 m ² /g	
	Applications: additives, flame retardant...	

1360HK	Aluminum Nitride Nanoparticle (Hexagonal)	\$92/25g
AlN	CAS No.: 24304-00-5	\$204/100g
UN 2813	Appearance: Nanopowder	
	Color: Off-white	
	Purity (%): 99	
	Oxygen Content (%): <0.8	
	Particle Size (nm): 40	
	Specific Surface Area (m ² /g): >78	
	Bulk Density (g/cm ³): 0.12	

1401GC	Barium Titanate Nanoparticle (cubic)	\$79/100g
BaTiO ₃	BaO/TiO ₂ : 0.999 - 1.001	\$178/500g
	Purity: 99.9%	
	APS: 100 nm	
	SSA: 10 - 11 m ² /g	
	Color: white	
	Morphology: spherical	
	True density: 5.85 g/cm ³	

1405DX	Barium Ferrite Nanopowder	\$75/5g
BaFe ₁₂ O ₁₉	Barium Hexaferrite Nanoparticles	\$150/25g
	Purity: 99.5%	\$260/100g
	APS: 60 nm	
	Morphology: polyhedral	
	True Density: 5.4 g/cm ³	

1520DX	Boron Oxide Nanoparticle	\$692/100g
B ₂ O ₃	Appearance: White nanopowder	
	Purity: 99.5%	
	APS: <80nm	
	True density: ~3.1 g/cm ³	

1526BZ	Boron Nitride (Hexagonal)	\$105/100g
BN	CAS Number: 10043-11-5	\$283/500g
	Molecular Weight: 24.82	
	Assay: 99.99%	
	Form: powder	
	Particle Size: 3~4 um	
	Density: 2.29 g/mL at 25 °C	



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1527BZ	Boron Nitride (Hexagonal)	\$81/100g
BN	CAS Number: 10043-11-5	\$218/500g
	Molecular Weight: 24.82	
	Assay: 99.9%	
	Form: powder	
	Particle Size: 3~4 um	
	Density: 2.29 g/mL at 25°C (lit.)	

1540HK	Boron Carbide Nanoparticle	\$364/25g
B ₄ C	CAS No.: 12069-32-8	\$765/100g
	Appearance: Dark grey nanopowder	
	Purity: 99%	
	Dissociate Silicon Content (%): <0.8	
	Particle Size (nm): 50	
	Specific Surface Area (m ² /g): >40	
	Morphology: Spherical	
	Bulk Density (g/cm ³):	

1710CY	Bismuth Oxide Nanoparticle (beta)	\$134/100g
Bi ₂ O ₃	Appearance: Yellow nanopowder	\$255/500g
	Purity: 99.9	\$383/1kg
	APS: <200 nm	
	SSA: 3.4 - 5.0 m ² /g	
	Color: yellow	
	Bulk density: 0.7 g/cm ³	
	True density: 8.9 g/cm ³	

1951RH	Calcium Carbonate Nanoparticle	\$58/100g
CaCO ₃	A functional filler or opacifier in paint and coating with exceptional wettability, dispersibility, and rheological properties. Under high shear, 1951RH exhibits shear thinning in the coating, making it flow easily and facilitating the application of the coating onto a surface. Once shear is removed, viscosity returns and enables the coating to adhere to the surface without sagging or running.	\$89/kg
	Appearance: White nanopowder	
	Average Particle Size (nm): 15-40	
	Morphology: Cubic	
	Whiteness (%): >90	
	Bulk Density (g/ml): 0.68	
	pH: 8.0-9.0	
	Moisture Content (w%): 0.5	
	CaCO ₃ dry basis (%): >97.5	
	MgO (%): <0.5	
	Surface modification: No	
	Applications: functional filler/additive in architectural paint	



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1952RH CaCO ₃	Calcium Carbonate A functional filler or pigment in paint and coating with exceptional rheology and thixotropy. Under high shear, 1952RH thins out the coating making it flow easily and facilitate the application of the coating onto a surface. Once shear is removed, viscosity returns enabling the coating to adhere to the surface without sagging or running. Appearance: White Powder Average Particle Size (nm): 15-40 Specific Surface Area (m ² /g): >40 Morphology: Cubic Whiteness (%): >92 Bulk Density (g/ml): 0.68 pH: 8.5-9.5 Moisture Content (w%): <0.5 CaCO ₃ Content (modified) (%): >94.5 MgO (%): <0.5 Surface modification: Yes Applications: functional filler/additive in car under-body PVC plastisol coating, car body paint, architectural paint, sealant, epoxy, and other organic compounds.	\$112/kg
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1953RH CaCO ₃	Calcium Carbonate Nanoparticle A reinforcing additive in plastics such as PP and PE. It significantly improves the impact strength, flexural modulus and tensile strength. It can partially replace existing reinforcing additives such as CPE and existing elastomeric reinforcing agents used in PP to lower your product cost. Appearance: White nanopowder Average Particle Size (nm): 15-40 Specific Surface Area (m ² /g): >40 Morphology: Cubic Whiteness (%): >92 Bulk Density (g/ml): 0.68 pH: 8.0-9.0 Moisture Content (w%): <0.5 CaCO ₃ Content (modified) (%): >94.5 MgO (%): <0.5 Surface modification: Yes Applications: reinforcing additive in plastics	\$112/kg
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1954RH CaCO ₃	Calcium Carbonate Nanoparticle Appearance: White nanopowder Average Particle Size (nm): 15-40 Specific Surface Area (m ² /g): >40 Morphology: Cubic Whiteness (%): >92 Bulk Density (g/ml): 0.68 pH: 8.0-9.0 Moisture Content (w%): <0.5 CaCO ₃ Content (modified) (%): >94.5 MgO (%): <0.5 Surface modification: Yes Applications: PVC film, PVC rolling membrane	\$112/kg
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1955RH CaCO ₃	Calcium Carbonate Nanoparticle Developed to improve ink performance in stability, glossiness, brightness Appearance: White nanopowder Average Particle Size (nm): 15-40 Specific Surface Area (m ² /g): >40 Morphology: Cubic, in chain Whiteness (%): >88 Bulk Density (g/ml): 0.68 pH: 8.0-9.0 Moisture Content (w%): <1.2 CaCO ₃ Content (modified) (%): >94.5 MgO (%): <0.5 Surface modification: Yes Applications: inks	\$112/kg
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1956RH CaCO ₃	Calcium Carbonate Nanoparticle Developed to improve performance of natural and synthesized rubbers in reinforcement and other mechanical properties. Appearance: White nanopowder Average Particle Size (nm): 15-40 Specific Surface Area (m ² /g): >40 Morphology: Cubic, in chain Whiteness (%): >88 Bulk Density (g/ml): 0.68 pH: 9.0-10.0 Moisture Content (w%): <0.5 CaCO ₃ Content (modified) (%): >94.5 MgO (%): <0.7 Surface modification: Yes Applications: natural and synthesized rubbers	\$112/kg
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1957RH CaCO ₃	Calcium Carbonate Nanoparticle Developed to improve the performance of adhesives Appearance: White nanopowder Average Particle Size (nm): 15-40 Specific Surface Area (m ² /g): >40 Morphology: Cubic Whiteness (%): >94 Bulk Density (g/ml): 0.68 pH: 8.5-9.5 Moisture Content (w%): <0.5 CaCO ₃ Content (modified) (%): >94.5 Surface modification: Yes Applications: organic silicon, polyurethane, epoxy, PVC resin, latex	\$112/kg
1949LT Ca ₃ (PO ₄) ₂	Calcium Phosphate Nanoparticle Appearance: white nanopowder APS: 20-40 nm Contents: CaO: 51.8%-55% P ₂ O ₅ : 39.5%-41.1% Moisture: 0.5%-0.8%	\$98/100g \$196/kg
1970NE Ca ₁₀ (PO ₄) ₆ (OH) ₂	Hydroxyapatite Nanoparticle Appearance: white nanopowder Purity: 98.5+% APS: <40 nm As: <1 ppm Morphology: needle pH: 7.4	\$118/100g \$369/500g \$576/kg
2110CG CeO ₂	Cerium Oxide Nanoparticle Appearance: Nanopowder Purity: 99.99% (REO) APS: 10-30 nm SSA: 30~50 m ² /g Color: pale yellow Morphology: spherical	\$77/25g \$180/100g
2310SC CoO	Cobalt (II) Oxide Nanoparticle Appearance: Greyish green nanopowder APS: <100 nm SSA > 8 m ² /g Contents (%): Co 70-72 Ni <0.01 Fe <0.01 Ca <0.008 Cu <0.01 Pb <0.002	\$238/100g \$650/500g

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2320SC	Cobalt(III) oxide Nanoparticle	\$238/100g
Co ₂ O ₃	Appearance: Greyish black nanopowder	\$650/500g
	APS: <100 nm	
	SSA > 10 m ² /g	
	Contents (%):	
	Co 70-74	
	Ni <0.5	
	Fe <0.07	
	Ca <0.1	
	Cu <0.3	
	Pb <0.02	

2330SC	Cobalt oxide Nanoparticle (cobaltosis oxide)	\$105/100g
Co ₃ O ₄	Appearance: Black nanopowder	\$320/500g
	APS: 50 nm	
	SSA > 10 m ² /g	
	Contents (%):	
	Co 72-74	
	Ni <0.2	
	Fe <0.04	
	Ca <0.05	
	Cu <0.08	
	Pb <0.002	

2810NH	Copper Oxide Nanoparticle	\$75/100g
CuO	Purity: 99+%	\$236/500g
	Appearance: Black nanopowder	
	APS: 40 nm	
	SSA: ~80 m ² /g	
	Morphology: nearly spherical	
	Bulk density: ~0.80 g/cm ³	
	True density: 6.4 g/m ³	

2910DX	Dysprosium Oxide Nanoparticle	\$85/5g
Dy ₂ O ₃	Purity: 99.9+%	\$190/25g
	Appearance: White nanopowder	
	APS: 50 nm	
	SSA: >20 m ² /g	
	Morphology: spherical	
	Bulk density: 0.45 g/cm ³	
	True density: 7.8 g/m ³	

3010DX	Erbium Oxide Nanoparticle	\$60/25g
Er ₂ O ₃	Purity: 99.9% (REO)	\$125/100g
	Appearance: Pink nanopowder	\$350/500g
	APS: 40-50 nm	
	SSA: 16 m ² /g	
	Morphology: nearly spherical	
	Bulk density: 0.59 g/cm ³	
	True density: 8.64 g/cm ³	

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3110DX Eu ₂ O ₃	Europium Oxide Nanoparticle Purity: 99.99% Appearance: White nanopowder APS: 50 nm SSA: 16 m ² /g Morphology: nearly spherical Bulk density: 0.56 g/cm ³ True density: 7.42 g/cm ³	\$133/5g \$365/25g
3310DX Alpha- Fe ₂ O ₃	Iron Oxide Nanoparticle Purity: 99% Appearance: Red nanopowder APS: 20 - 40 nm SSA: 40-60 m ² /g Morphology: spherical Bulk density: 1.20 g/cm ³ True density: 5.24 g/cm ³	\$98/100g \$262/500g \$380/1000g
3315DX Gamma- Fe ₂ O ₃	Iron Oxide Nanoparticle Purity: 99% Appearance: Red brown nanopowder APS: 20-40 nm SSA: 40-60 m ² /g Morphology: spherical	\$98/100g \$262/500g \$380/1000g
3320DX Fe ₃ O ₄	Iron Oxide Nanoparticle Purity: 98+% trace metals basis Appearance: black nanopowder APS: 20 - 30 nm SSA: 40-60 m ² /g Morphology: spherical Bulk density: 0.84 g/cm ³ True density: 4.8-5.1 g/cm ³	\$98/100g \$262/500g \$380/1000g
3325NG Fe ₃ O ₄	Iron Oxide Nanoparticle Purity: 98+% trace metals basis Appearance: black nanopowder APS: 10-20 nm SSA: ~90 m ² /g Morphology: spherical Bulk density: True density: 4.8-5.1 g/cm ³	\$157/25g \$362/100g \$1282/500g
3510CG Gd ₂ O ₃	Gadolinium Oxide Nanoparticle Purity: 99.9+% (REO) Appearance: white nanopowder APS: <100 nm SSA: 10-40 m ² /g Morphology: nearly spherical Bulk density: 0.3-0.4 g/cm ³ True density: 7.407 g/cm ³	\$98/25g \$220/100g

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3810XX	Hafnium Oxide Nanoparticle	\$728/100g
HfO ₂	Appearance: white nanopowder	\$2426/500g
	Purity: 99.9% (REO)	
	APS: ~100 nm	
	Morphology: nearly spherical	

4110CB	Indium Tin Oxide, Yellow	\$90/5g
ITO	In ₂ O ₃ :SnO ₂ =90:10(wt)	\$146/25g
	Purity: 99.99%	\$365/100g
	Appearance: Nanopowder, Yellow	
	APS: 20-70 nm	
	SSA: 15-40 m ² /g	
	Morphology: Spherical	
	Bulk density: ~0.8 g/cm ³	
	True density: 7.12 g/cm ³	

4111CB	Indium Tin Oxide, Yellow	\$90/5g
ITO	In ₂ O ₃ :SnO ₂ =95:5(wt)	\$146/25g
	Purity: 99.99%	\$365/100g
	Appearance: Nanopowder, Yellow	
	APS: 20-70 nm	
	SSA: 15-40 m ² /g	
	Morphology: Spherical	
	Bulk density: ~0.8 g/cm ³	
	True density: 7.12 g/cm ³	

4112CB	Indium Tin Oxide, Blue	\$140/5g
ITO	In ₂ O ₃ :SnO ₂ =90:10(wt)	\$252/25g
	Purity: 99.99%	\$651/100g
	Appearance: Nanopowder, Blue	
	APS: 20-70 nm	
	SSA: 15-40 m ² /g	
	Morphology: Spherical	
	Bulk density: ~0.6 g/cm ³	
	True density: 7.12 g/cm ³	

4113CB	Indium Tin Oxide, Blue	\$140/5g
ITO	In ₂ O ₃ :SnO ₂ =95:5(wt)	\$252/25g
	Purity: 99.99%	\$651/100g
	Appearance: Nanopowder, Blue	
	APS: 20-70 nm	
	SSA: 15-40 m ² /g	
	Morphology: Spherical	
	Bulk density: ~0.6 g/cm ³	
	True density: 7.12 g/cm ³	



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4115CB	Indium Oxide Nanoparticle	\$98/5g
In ₂ O ₃	Purity: 99.99%	\$218/25g
	Appearance: yellowish green nanopowder	\$486/100g
	APS: 20-70 nm	
	SSA: 20-30 m ² /g	
	Bulk density: 0.80 g/cm ³	
	True density: 7.12 g/cm ³	

4118CB	Indium Hydroxide Nanoparticle	\$98/5g
In(OH) ₃	Purity: 99.99%	\$218/25g
	Appearance: White nanopowder	\$486/100g
	APS: 20-70 nm	
	SSA: ~15 m ² /g	
	Morphology: Spherical	
	Bulk density: ~0.5 g/cm ³	
	True density: 4.45 g/cm ³	

4430DX	Lanthanum Hexaboride Nanoparticle	\$686/100g
LaB ₆	Purity: 99.0+%	
	Appearance: nanopowder	
	APS: 50-80 nm	
	SSA: n/a	
	Morphology: nearly spherical	
	Bulk density: n/a	
	True density: 4.45 g/cm ³	

4410CG	Lanthanum oxide Nanoparticle	\$80/25g
La ₂ O ₃	Purity: 99.99% (REO)	\$178/100g
	Appearance: white nanopowder	
	APS: 100 nm	
	Bulk density: ~0.4 g/cm ³	
	True density: 6.51 g/cm ³	

4610NH	Lithium Iron Phosphate (LiFePO₄, LFP)	\$9100g
LiFePO ₄	Average particle size: 40 nm	\$197/500g
	SSA: 50-60 m ² /g	\$290/kg
	Tap density: 0.9-1.3 g/cm ³	
	Specific capacity (0.2C, 0.5C): 130 mAh/g	
	Contents (%):	
	Li 4.0-4.7	
	P 18-20	
	Fe 32-34	
	C 2.5-5.0	
	Mn <0.3	
	Ni <0.005	
	Pb <0.01	

4800DL	Magnesium Oxide Nanoparticle	\$89/100g
MgO	White nanopowder without any surface treatment	\$179/500g
	D50: 10-30 nm	\$239/1kg
	SSA: >60 m ² /g	

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4810NH	Magnesium Oxide Nanoparticle	\$86/100g
MgO	Purity: 99%	\$175/500g
	Appearance: white nanopowder	\$236/1kg
	APS: 20 nm	
	SSA: ~ 50 m ² /g	
	Morphology: polyhedral	
	Bulk density: 0.13-0.16 g/cm ³	
	True density: 3.58 g/m ³	

4801DL	Magnesium Oxide Nanoparticle	\$146/100g
MgO	White nanopowder treated with Stearic Acid	\$294/500g
	D50: 10-20 nm	\$392/1kg
	SSA: >20 m ² /g	

4832SS	Magnesium Hydroxide Nanoparticle	\$188/1kg
Mg(OH) ₂	Purity: 99.8%	
	Appearance: white nanopowder	
	APS: <50 nm	
	SSA: 5-10 m ² /g	
	Morphology: Flaky	
	Bulk density: 0.5 g/cm ³	
	Applications: Compared with micron magnesium hydroxide, product 4832SS can be more evenly dispersed in PA, PP, ABS, PVC, and other rubber and plastic products. It is an excellent fire or flame retardant, smoke suppressant.	

4910DX	Manganese Oxide Nanoparticle	\$192/100g
Mn ₂ O ₃	Purity: 98+%	\$465/500g
	Appearance: Black nanopowder	
	APS: 40-60 nm	
	SSA: N/A	
	Bulk density: ~0.9 g/cm ³	

5010DX	Molybdenum Oxide Nanoparticles	\$86/5g
MoO ₃	Form: powder	\$258/25g
	Purity: > 99.9%	
	Particle Size: <100 nm	

5220DX	Niobium Oxide Nanoparticles	\$120/25g
Nb ₂ O ₅	Form: Black powder	\$270/100g
	Purity: > 99.9%	
	Particle Size: ~500 nm	

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5310CG	Neodymium Oxide Nanoparticle	\$99/25g
Nd ₂ O ₃	Purity: 99.9+% (REO)	\$226/100g
	Appearance: pale purple nanopowder	
	APS: <100 nm	
	SSA: 10 m ² /g	
	Morphology: irregular	
	Bulk density: 0.41 g/cm ³	
	True density: 7.24 g/cm ³	

5410SC	Nickel Oxide Nanoparticle	\$135/100g
NiO	Appearance: Green nanopowder	\$336/500g
	APS: <100 nm	
	SSA > 6 m ² /g	
	Contents (%):	
	Ni 77.5-78.8	
	Co <0.04	
	Si <0.05	
	Fe <0.3	
	Al <0.4	
	Mg <0.1	

5420SC	Nickel (III) Oxide Nanoparticle	\$168/100g
Ni ₂ O ₃	Appearance: Black nanopowder	\$398/500g
	APS: <100 nm	
	SSA > 8 m ² /g	
	Contents (%):	
	Ni 71.8-75	
	Co <0.1	
	Si <0.08	
	Fe <0.4	
	Al <0.5	
	Mg <0.1	

6610CY	Antimony Oxide Nanoparticle	\$137/100g
Sb ₂ O ₃	Purity: 99.9%	\$260/500g
UN1549	Appearance: white nanopowder	\$390/1kg
	APS: 150 nm	
	SSA: 8-15 m ² /g Bulk density: ~0.6 g/cm ³	
	True density: 5.67 g/cm ³	

6807NM	Silicon Oxide Nanoparticle	\$72/100g
SiO ₂	White nanopowder, porous, no surface treatment	\$119/500g
	APS: 15-20 nm	\$180/1kg
	SSA: 640 m ² /g	

6808NM	Silicon Oxide Nanoparticle	\$72/100g
SiO ₂	White nanopowder, non-porous, no surface treatment	\$119/500g
	APS: 20 nm	\$180/1kg
	SSA: 160 m ² /g	

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6810DL	Silicon Oxide Nanoparticle	\$60/100g
SiO ₂	White naopowder, no surface treatment	\$125/500g
	D50: 20-60 nm	\$176/1kg
	SSA: 400-600 m ² /g	

6812DL	Silicon Oxide Nanoparticle	\$86/100g
SiO ₂	White nanopowder treated with Hexamethyldisilazane	\$178/500g
	D50: 10-30 nm	\$251/1kg
	SSA: >400 m ² /g	

6814DL	Silicon Oxide Nanoparticle	\$86/100g
SiO ₂	White nanopowder treated with Silanes	\$178/500g
	D50: 10-30 nm	\$251/1kg
	SSA: >400 m ² /g	

6851HN	Silicon Oxide Nanoparticle	\$98/100g
SiO ₂	surface modified with amino group;	\$353/500g
	dispersible in toluene, epoxy resin, unsaturated resin,	
	polymethacrylates, phenolic resin, nylon, and paint;	
	reactive with epoxy group and carboxyl group in organics	
	or polymers	

Properties

loss on drying (%) (105 °C, 2h): <3
loss on ignition (%) (950 °C, 2h): <10
contents of SiO₂ (dry basis) (%): >85
contents of SiO₂ (950 °C, 2h) (%): >99.8
contents of carbon (%): 0.3
particle size (nm): 10-20
pH: 6.0-7.5
surface area (m²/g): 90-130
bulk density (g/ml): 0.1

6852HN	Silicon Oxide Nanoparticle	\$98/100g
SiO ₂	Surface modified with epoxy group;	\$353/500g
	dispersible in toluene, epoxy resin, polyvinyl chloride,	
	unsaturated Polyester resin, phenolic resin, nylon, and	
	coatings;	
	reactive with epoxy group, amino group, carboxyl group,	
	and hydroxyl group in resin and produce polymer/inorganic	
	nano-composites	

Properties

loss on drying (%) (105 °C, 2h): <3
loss on ignition (%) (950 °C, 2h): <12
contents of SiO₂ (dry basis) (%): >85
contents of SiO₂ (950 °C, 2h) (%): >99.8
contents of carbon (%): 0.3
particle size (nm): 10-20
pH: 6.0-7.5
surface area (m²/g): 90-130
bulk density (g/ml): 0.15

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6853HN

SiO₂

Silicon Oxide Nanoparticle

Surface modified with double bond;
dispersible in toluene, unsaturated resin, Polystyrene,
polycarbonate, and coatings;
reactive with unsaturated bond

\$98/100g

\$353/500g

Properties

loss on drying (%) (105 °C, 2h): <3
loss on ignition (%) (950 °C, 2h): <12
contents of SiO₂ (dry basis) (%): >85
contents of SiO₂ (950 °C, 2h) (%): >99.8
contents of carbon (%): 0.3
particle size (nm): 10-20
pH: 6.0-7.5
surface area (m²/g): 90-130
bulk density (g/ml): 0.15

6861HN

SiO₂

Silicon Oxide Nanoparticle

Surface modified with double layer structure;
Dispersible in non-polar and weak polar
media; decomposed in acid or polar media and SiO₂
particles separated;
Used as a filler of leather; and for applications of oil
based coatings, rubber, plastics

\$98/100g

\$353/500g

Properties

loss on drying (%) (105 °C, 2h): <3
loss on ignition (%) (950 °C, 2h): <15
contents of SiO₂ (dry basis) (%): >80
contents of SiO₂ (950 °C, 2h) (%): >99.8
contents of carbon (%): 0.3
particle size (nm): 10-20
surface area (m²/g): 60-100
pH: 6.5-7.5
bulk density (g/ml): 0.15



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6862HN	Silicon Oxide Nanoparticle	\$98/25g
SiO ₂	<ul style="list-style-type: none">• Surface modified with single layer organic chain, super-hydrophobic and Oleophilic;• Dispersible in non-polar and weak polar organic solvents;• For applications of lubricating greases, resins, adhesives, elastomers, inks, sealants, wax, leather, and waterproof and anticorrosive coatings	\$292/100g

Properties

loss on drying (%) (105 oC, 2h): <3
loss on ignition (%) (950 oC, 2h): <10
contents of SiO₂ (dry basis) (%): >90
contents of SiO₂ (950 oC, 2h) (%): >99.8
contents of carbon (%):0.3
particle size (nm): 10-20
surface area (m²/g): 100-140
pH: 6.5-7.5
bulk density (g/ml): 0.15

6863HN	Silicon Oxide Nanoparticle	\$98/100g
SiO ₂	<ul style="list-style-type: none">• Surface modified with single layer organic chain, ;• hydrophobic and oleophili;• For applications of lubricating greases, coatings, rubber, plastics, fibers, sealants, and adhesives	\$353/500g

Properties

loss on drying (%) (105 oC, 2h): <3
loss on ignition (%) (950 oC, 2h): <10
contents of SiO₂ (dry basis) (%): >90
contents of SiO₂ (950 oC, 2h) (%): >99.8
contents of carbon (%):0.3
particle size (nm): 5-15
surface area (m²/g): 100-140
pH: 6.5-7.5
bulk density (g/ml): 0.15



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6864HN	Silicon Oxide Nanoparticle	\$98/100g
SiO ₂	<ul style="list-style-type: none">Surface modified with single layer organic chain, super-hydrophobic;For applications of rubber, ink, lubricating greases, coatings, plastics, fibers, sealants, and adhesives	\$353/500g

Properties

loss on drying (%) (105 oC, 2h): <3
loss on ignition (%) (950 oC, 2h): <5
contents of SiO₂ (dry basis) (%): >92
contents of SiO₂ (950 oC, 2h) (%): >99.8
contents of carbon (%): 0.15
particle size (nm): 10-25
surface area (m²/g): 75-125
pH: 6.5-7.5
bulk density (g/ml): 0.15

6820HK	Silicon Carbide Nanoparticle	\$89/25g
beta SiC	CAS No.: 409-21-2 Appearance: Grey Green Nanopowder Purity (%): 99 Oxygen Content (%): <0.6 Particle Size (nm): 40 Specific Surface Area (m ² /g): >80 Bulk Density (g/cm ³): 0.08	\$129/100g

6880XH	Silicon Carbide Nanofiber	\$69/10g
beta SiC	Contents: beta- SiC>99.9+%, Beta-SiC whisker>97%, Free Carbon <0.05% Diameter: 0.1-0.3 um Length: 2.0-60 um	\$125/25g \$349/100g

Typical Properties

Crystal Type: Beta
Decomposition Temperature: 2973 k
Thermal Expansion Coefficient: 6.58x10⁻⁶ at 373k;
2.98x10⁻⁶ at 1173k
Compressibility Coefficient: 0.21x10⁻⁶
Density (288k): 3.216 g/cm³
Hardness: 9.5 Mohs
Tensile Strength: 20.8 GPa

6830HK	Silicon Nitride Nanoparticle (amorphous)	\$78/25g
Si ₃ N ₄	CAS No.: 12033-89-5 Appearance: White Nanopowder Purity (%): 99 Oxygen Content (%): <0.5 Particle Size (nm): 20 Specific Surface Area (m ² /g): >110 Bulk Density (g/cm ³): 0.06	\$115/100g

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6835HK	Silicon Nitride Nanofiber	\$98/25g
Si ₃ N ₄ alpha	Appearance: Grey white nanowhisker/nanofiber	\$138/100g
	Dimensions: 100nmX800nm	
	Purity (%): 99	
	Oxygen Content (%): <1	
	Free Si (%): <0.4	
	Specific Surface Area (m ² /g): 45	
	Bulk Density (g/cm ³): 0.044	
	Crystal Cell: Hexagonal	

7012LC	Tin Oxide Nanoparticle	\$125/100g
SnO ₂	Purity: 99.9%	\$264/500g
	Appearance: white nanopowder	\$452/1kg
	APS: 50-70 nm	
	SSA: 10-30 m ² /g	
	Bulk density: 0.3 g/cm ³	
	True density: 6.95 g/cm ³	

7050NH	Antimony Tin Oxide Nanoparticle (ATO)	\$185/100g
ATO	SnO ₂ :Sb ₂ O ₃ =90:10	\$402/500g
	Appearance: nanopowder	\$590/1kg
	APS: 40 nm	
	SSA: >75 m ² /g	
	Electrical Conductivity: 10 ⁶ ~10 ⁹ ohm	
	PH: 4.0~7.0	
	Bulk Density: 0.95 g/cm ³	
	Applications: Transparent Electrodes for LCD, ELD, ECD, and Solar Cell; thermal insulation; electromagnetism shield...	

7910DL	Titanium Oxide Nanoparticle (anatase)	\$64/100g
TiO ₂	Purity: 99.5%	\$134/500g
	Appearance: white nanopowder	\$188/1kg
	D50: 5-10 nm	
	SSA: >50m ² /g	

7918DL	Titanium Oxide Nanoparticle (anatase + rutile)	\$108/100g
TiO ₂	Purity: 99.5%	\$226/500g
	Appearance: white nanopowder	\$317/1kg
	D50: 10-30 nm	
	SSA: 50-100 m ² /g	

7920DL	Titanium Oxide Nanoparticle (Rutile)	\$64/100g
TiO ₂	Purity: 99.5%	\$134/500g
	Appearance: white nanopowder	\$188/1kg
	D50: 10-30 nm	
	SSA: ~50 m ² /g	

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7923DL	Titanium Oxide (Rutile, coated with Al₂O₃)	\$110/100g
TiO ₂	Purity: 99%	\$230/500g
	Appearance: white nanopowder	\$332/1kg
	D50: 20-40 nm	
	SSA: > 40 m ² /g	

7925DL	Titanium Oxide (Rutile, coated with Silicone Oil)	\$110/100g
TiO ₂	Purity: 99%	\$230/500g
	Appearance: white nanopowder	\$332/1kg
	D50: 20-40 nm	
	SSA: > 40 m ² /g	

7940HK	Titanium Carbide Nanoparticle	\$95/25g
TiC	CAS No.: 12070-08-5	\$240/100g
UN 3178	Appearance: Black nanopowder	
	Purity (%): 99	
	Oxygen Content (%): <0.25	
	Particle Size (nm): 40	
	Specific Surface Area (m ² /g): >50	
	Bulk Density (g/cm ³): 0.08	

7945HK	Titanium Nitride Nanoparticle (Cubic)	\$126/25g
TiN	CAS No.: 25583-20-4	\$245/100g
UN 3178	Appearance: Black nanopowder	
	Purity (%): 97+	
	Oxygen Content (%): <1	
	Particle Size (nm): 20	
	Specific Surface Area (m ² /g): >80	
	Bulk Density (g/cm ³): 0.08	

8010CN	Tungsten Oxide	\$79/25g
WO ₃	Appearance: Light Blue Nanopowder	\$147/100g
	Purity: > 99.5%	\$408/500g
	Particle Size: <100 nm	
	SSA: 5-20 m ² /g	

8020CH	Tungsten Disulfide	\$96/100g
WS ₂	Form: powder	\$193/500g
	Color: silver grey	\$320/1 kg
	Purity: > 99.9%	
	Particle Size: 0.8 um	
	Morphology: flaky	
	Coefficient of Friction: 0.03 dynamic, 0.07 static	
	Lubricating Temperature Range: Ambient: from -273 °C to 650 °C; Vacuum (10 ⁻¹⁴ Torr): -188°C to 1316°C	
	Load bearing ability: 3x10 ⁵ PSI for coated film	
	Coatable substrates: iron steel, aluminum, copper, plastics, and other metals and solids	
	Compatibility: oil, solvent, paint, fuel	

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8030CH	Tungsten Hexachloride	\$98/100g
WCl ₆	Form: powder	\$195/500g
UN 3260	Color: purple black	
	Purity: > 99.0%	
	Particle Size: micro-sized	

8210CG	Yttrium oxide	\$85/25g
Y ₂ O ₃	Purity: 99.995% (REO)	\$184/100g
	Appearance: white nanopowder	
	APS: 30-50 nm	
	SSA: ~40 m ² /g	
	Morphology: spherical	
	Bulk density: 0.33 g/cm ³	
	True density: 5.01 g/cm ³	

8410DL	Zinc Oxide Nanoparticle	\$64/100g
ZnO	Purity: 99.8%	\$134/500g
	Appearance: white ~ light yellow nanopowder	\$188/1kg
	D50: 10-30 nm	
	SSA: >90m ² /g	

8411DL	Zinc Oxide (treated with silane coupling agents)	\$110/100g
ZnO	Purity: 99%	\$230/500g
	Appearance: white ~ light yellow nanopowder	\$232/1kg
	D50: 10-30 nm	
	SSA: >60m ² /g	

8412DL	Zinc Oxide (treated with stearic acid)	\$110/100g
ZnO	Purity: 99%	\$230/500g
	Appearance: white ~ light yellow nanopowder	\$232/1kg
	D50: 10-30 nm	
	SSA: >60m ² /g	

8415CY	Zinc Oxide Nanoparticle	\$59/100g
ZnO	Purity: 99.9%	\$112/500g
	Appearance: white ~ light yellow nanopowder	\$168/1kg
	APS: <200 nm	
	Bulk Density: 0.4 g/cm ³	

8512QI	Zirconium Oxide Nanoparticle	\$83/100g
ZrO ₂	Purity: 99.9%	\$157/500g
	Appearance: white nanopowder	\$245/1kg
	APS: 20-30 nm	
	SSA: > 35 m ² /g	
	Morphology: Spherical	



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8520DL	Zirconium Oxide	\$50/100g
ZrO ₂ -3Y	Purity: 99.9%	\$78/500g
	Contents of Y ₂ O ₃ (wt%): 5.2±0.2	\$122/1kg
	D50: 0.3-0.5 um	
	SSA: > 13-17 m ² /g	
	Color: white	

8522QI	Zirconium Oxide Nanoparticle (monoclinic + tetragonal)	\$86/100g
ZrO ₂ -3Y	Purity: Y ₂ O ₃ - 5.4%, ZrO ₂ +HfO ₂ - 94%	\$163/500g
	APS: 25 nm	\$254/1kg
	SSA: > 40 m ² /g	
	Morphology: Spherical	

8528QI	Zirconium Oxide Nanoparticle	\$86/100g
ZrO ₂ -5Y	Purity: Y ₂ O ₃ - 8.6-9.0%	\$163/500g
	APS: 20-30 nm	\$254/1kg
	Morphology: Spherical	

8530DL	Zirconium Oxide	\$50/100g
ZrO ₂ -8Y	Purity: 99.9%	\$78/500g
	Contents of Y ₂ O ₃ (wt%): 13.3±0.2	\$122/1kg
	D50: 0.3-0.5 um	
	SSA: > 13-17 m ² /g	
	Color: white	

8532QI	Zirconium Oxide (cubic)	\$91/100g
ZrO ₂ -8Y	Purity: Y ₂ O ₃ - 13.5%, ZrO ₂ +HfO ₂ - 86%	\$172/500g
	Appearance: white nanopowder	\$268/1kg
	APS: 20 nm	
	SSA: > 50 m ² /g	
	Morphology: Near Spherical	

8540HK	Zirconium Carbide Nanoparticle	\$141/25g
ZrC	CAS No.: 12070-14-3	\$235/100g
UN 3178	Appearance: Black nanopowder	
	Purity (%): 97+	
	Oxygen Content (%): <1.0	
	Particle Size (nm): 60	
	Specific Surface Area (m ² /g): >70	
	Morphology: Spherical	
	Bulk Density (g/cm ³): 0.08	



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CARBON NANOTUBES

Product #	Description	Price
0550CA SWNT	Single-walled nanotubes (SWNTs) Purity: > 95 wt% (carbon nanotubes) > 90 wt% (single-walled nanotubes) Outside diameter: 1-2 nm Inside diameter: 0.8-1.6 nm Length: 5-20 μ m SSA: > 400 m ² /g Ash: <3.0wt% Bulk density: 0.14 g/cm ³ True density: ~2.1 g/cm ³ Color: black Manufacturing method: Catalytic CVD	\$168/1g \$790/5g
0551CA SWNT	Single-walled nanotubes (SWNTs) Purity: > 90 wt% (carbon nanotubes) > 60 wt% (single-walled nanotubes) Outside diameter: 1-2 nm Inside diameter: 0.8-1.6 nm Length: 5-20 μ m SSA: > 400 m ² /g Ash: <3.0wt% Bulk density: 0.14 g/cm ³ True density: ~2.1 g/cm ³ Color: black Manufacturing method: Catalytic CVD	\$95/1g \$318/5g
0552CA MWNTs, 95%, <8 nm	Multi walled nanotubes (MWNTs) Purity: > 95 wt% (carbon nanotubes) Outside diameter: <8 nm Inside diameter: 2-5 nm Length: 5-20 μ m SSA: > 500 m ² /g Ash: <1.5wt% Electrical conductivity: >100 s/cm Bulk density: 0.27g/cm ³ True density: ~2.1 g/cm ³ Manufacturing method: Catalytic CVD	\$108/5g \$235/25g \$490/100g

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0553CA	Multi walled nanotubes (MWNTs)	\$75/5g
MWNTs	Purity: > 95 wt%	\$169/25g
95%, 10-20 nm	Outside diameter: 10-20 nm	\$438/100g
	Inside diameter: 3-5 nm	
	Length: 5-30um	
	SSA: > 350 m ² /g	
	Ash: <1.0wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.27g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	

0554CA	Multi walled nanotubes (MWNTs)	\$70/5g
MWNTs	Purity: > 95 wt%	\$118/25g
95%, 20-30 nm	Outside diameter: 20-30 nm	\$256/100g
	Inside diameter: 5-10 nm	
	Length: 10-30 um	
	SSA: >110 m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	

0555CA	Multi walled nanotubes (MWNTs)	\$70/5g
MWNTs	Purity: > 95 wt%	\$118/25g
95%, 30-50nm	Outside diameter: 30-50 nm	\$256/100g
	Inside diameter: 5-10 nm	
	Length: 5-20 um	
	SSA: >60 m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	

0556CA	Multi walled nanotubes (MWNTs)	\$70/5g
MWNTs	Purity: > 95 wt%	\$118/25g
95%, 50-100nm	Outside diameter: 50-100nm	\$256/100g
	Inside diameter: 5-10 nm	
	Length: 5-20 um	
	SSA: >60 m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	



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0550CA-OH	Single-walled nanotubes (SWNTs), -OH functionalized	\$196/1g
SWNTs	Content of -OH groups: ~4wt%	
-OH unfunctionalized	Purity: > 95 wt% (carbon nanotubes)	\$919/5g
90%	> 90 wt% (single-walled nanotubes)	
	Outside Diameter: 1-2 nm	
	Inside Diameter: 0.8-1.6 nm	
	Length: 5-20 um	
	SSA: > 400 m ² /g	
	Ash: <1.5wt%	
	Electrical Conductivity: >100 s/cm	
	Bulk Density: 0.14 g/cm ³	
	True density: ~2.1 g/cm ³	
	Color: black	
	Manufacturing method: Catalytic CVD	

0551CA-OH	Single-walled nanotubes (SWNTs), -OH functionalized	\$138/1g
SWNTs	Content of -OH groups: ~4wt%	\$520/5g
-OH unfunctionalized	Purity: > 90 wt% (carbon nanotubes)	
60%	> 60 wt% (single-walled nanotubes)	
	Outside Diameter: 1-2 nm	
	Inside Diameter: 0.8-1.6 nm	
	Length: 5-20 um	
	SSA: > 400 m ² /g	
	Ash: <3.0wt%	
	Bulk Density: 0.14 g/cm ³	
	True density: ~2.1 g/cm ³	
	Color: black	
	Manufacturing method: Catalytic CVD	

0552CA-OH	Multi walled nanotubes	\$132/5g
MWNTs	-OH functionalized (MWNTs-OH)	\$348/25g
-OH unfunctionalized	Purity: > 95 wt%	
95%, <8nm	Content of -OH group: ~5.0wt%	
	Outside diameter: <8 nm	
	Inside diameter: 2-5 nm	
	Length: 5-20 um	
	SSA: > 500 m ² /g	
	Ash: <1.5wt%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.27g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	



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0553CA-OH	Multi walled nanotubes -OH functionalized (MWNTs)	\$119/5g
MWNTs	Purity: > 95 wt%	\$273/25g
-OH unfunctionalized	Content of -OH: ~2.0 wt%	
95%, 10-20 nm	Outside diameter: 10-20 nm	
	Inside diameter: 3-5 nm	
	Length: 5-30um	
	SSA: >350 m ² /g	
	Ash: <1.0wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.27g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	

0554CA-OH	Multi walled nanotubes (MWNTs)	\$110/5g
MWNTs	Purity: > 95 wt%	\$258/25g
-OH unfunctionalized	Content of -OH: ~1.6 wt%	\$798/100g
95%, 20-30 nm	Outside diameter: 20-30 nm	
	Inside diameter: 5-10 nm	
	Length: 10-30 um	
	SSA: >110 m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	

0555CA-OH	Multi walled nanotubes (MWNTs)	\$110/5g
MWNTs	Purity: > 95 wt%	\$258/25g
-OH unfunctionalized	Content of -OH: ~1.0 wt%	\$798/100g
95%, 30-50 nm	Outside diameter: 30-50nm	
	Inside diameter: 5-10 nm	
	Length: 10-30 um	
	SSA: >100m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	

0556CA-OH	Multi walled nanotubes (MWNTs)	\$110/5g
MWNTs	Purity: > 95 wt%	\$258/25g
-OH unfunctionalized	Content of -OH: ~0.7 wt%	\$798/100g
95%,50-100 nm	Outside diameter: 50-100 nm	
	Inside diameter: 5-10 nm	
	Length: 10-30 um	
	SSA: >60m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	

Updated on Aug. 01, 2011



Skyspring Nanomaterials, Inc.

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0550CA-COOH	Single-walled nanotubes (SWNTs), -COOH functionalized	\$196/1g \$1190/5g
SWNTs	Content of -COOH groups: ~3wt%	
-COOH	Purity: > 95 wt% (carbon nanotubes) > 90 wt% (single-walled nanotubes)	
Functionalized	Outside Diameter: 1-2 nm	
95%	Inside Diameter: 0.8-1.6 nm	
	Length: 5-20 μm	
	SSA: > 400 m^2/g	
	Ash: <1.5wt%	
	Electrical Conductivity: >100 s/cm	
	Bulk Density: 0.14 g/cm^3	
	True density: ~2.1 g/cm^3	
	Color: black	
	Manufacturing method: Catalytic CVD	
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0551CA-COOH	Single-walled nanotubes (SWNTs), -OH functionalized	\$138/1g \$520/5g
SWNTs	Content of -COOH groups: ~5wt%	
-COOH	Purity: > 90 vol% (carbon nanotubes) > 60 vol% (single-walled nanotubes)	
Functionalized	Outside Diameter: 1-2 nm	
60%	Inside Diameter: 0.8-1.6 nm	
	Length: 5-20 μm	
	SSA: > 400 m^2/g	
	Ash: <3.0wt%	
	Bulk Density: 0.14 g/cm^3	
	True density: ~2.1 g/cm^3	
	Color: black	
	Manufacturing method: Catalytic CVD	
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0552CA-COOH	Multi walled nanotubes -COOH functionalized (MWNTs-COOH)	\$132/5g \$348/25g
MWNTs	Purity: > 95 wt%	
-COOH	Content of -COOH group: ~4wt%	
Functionalized	Outside diameter: <8 nm	
95%, <8 nm	Inside diameter: 2-5 nm	
	Length: 5-20 μm	
	SSA: > 500 m^2/g	
	Ash: <1.5wt%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.27 g/cm^3	
	True density: ~2.1 g/cm^3	
	Manufacturing method: Catalytic CVD	



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0553CA-COOH	Multi walled nanotubes -COOH functionalized (MWNTs)	\$119/5g
MWNTs	Purity: > 95 wt%	\$273/25g
-COOH	Content of -COOH: ~2.0 wt%	
Functionalized	Outside diameter: 10-20 nm	
95%, 10-20 nm	Inside diameter: 3-5 nm	
	Length: 5-30um	
	SSA: >350 m ² /g	
	Ash: <1.0wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.27g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	
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0554CA-COOH	Multi walled nanotubes (MWNTs)	\$110/5g
MWNTs	Purity: > 95 wt%	\$258/25g
-COOH	Content of -COOH: ~1.2 wt%	\$798/100g
Functionalized	Outside diameter: 20-30 nm	
95%, 20-30 nm	Inside diameter: 5-10 nm	
	Length: 10-30 um	
	SSA: >110 m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	
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0555CA-COOH	Multi walled nanotubes (MWNTs)	\$110/5g
MWNTs	Purity: > 95 wt%	\$258/25g
-COOH	Content of -COOH: ~0.7 wt%	\$798/100g
Functionalized	Outside diameter: 30-50nm	
95%, 30-50 nm	Inside diameter: 5-10 nm	
	Length: 10-30 um	
	SSA: >100m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	



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0556CA-COOH	Multi walled nanotubes (MWNTs)	\$110/5g
MWNTs	Purity: > 95 wt%	\$258/25g
-COOH	Content of -COOH: ~0.5 wt%	\$798/100g
Functionalized	Outside diameter: 50-100nm	
95%, 50-100 nm	Inside diameter: 5-10 nm	
	Length: 10-30 um	
	SSA: >60m ² /g	
	Ash: <1.5 wt%	
	Amorphous carbon: <3.0%	
	Electrical conductivity: >100 s/cm	
	Bulk density: 0.28 g/cm ³	
	True density: ~2.1 g/cm ³	
	Manufacturing method: Catalytic CVD	
