

# **Elements, Alloys, Compounds and Oxides**

## **Section 1**

**Nanopowder (Nanoparticles) Elements and Alloys**

## **Section 2**

**Nanopowder (Nanoparticles) Compounds**

## **Section 3**

**Nanopowder (Nanoparticles) Oxides**

## **Section 4**

**Nanopowder (Nanoparticles) Dispersions**

## **Section 5**

**MicroPowders (Microparticles)**

## Section 1 -- Elements and Alloys

No.	Product Descriptions
1.	Silver Nanopowder (Ag, 99.99%, 80-100 nm, metal basis)
2.	Silver Nanopowder ( Ag, 99.99% , 50-80 nm, w/~0.2% PVP )
3.	Silver Nanopowder (Ag, 99.99%, 50-80 nm, metal basis)
4.	Silver Nanopowder (Ag, 99.99%, 30-50 nm, w/~0.2 wt% PVP Coated)
5.	Silver Nanopowder (Ag, 99.99%, 30-50nm, metal basis)
6.	Silver Nanopowder (Ag, 99.99%, 20nm, w/~0.2% PVP )
7.	Silver Nanopowder (Ag, 99.99%, 20nm, metal basis)
8.	*Aluminum Nanopowder (Al, 99.9+%, 100nm, metal basis)
9.	*Aluminum Nanopowder (Al, 99.9%, 70nm, metal basis)
10.	*Aluminum Nanopowder (Al, 99.9%, 40nm, metal basis)
11.	Gold Nanopowder (Au, 99.9+%, 50-100 nm)
12.	Diamond Nanopowder (C, 54.5%, 3-10 nm)
13.	Diamond Nanopowder (C, >98.3%, 3-10 nm)
14.	Porous Carbon Nanopowder (C, 20-40 nm, Plant as Raw Materials)
15.	Porous Carbon Nanopowder (C, 60-80nm, Plant as Raw Materials)
16.	Super Activated Carbon Nanopowder (C, <100nm, Coconut Shell as Raw Materials)
17.	Super Activated Carbon Nanopowder (C, <100nm, Bamboo as Raw Materials)
18.	Super Activated Carbon Nanopowder (C, <100nm, Charcoal as Raw Materials)
19.	*Cobalt Nanopowder (Co, 99.8%, 28 nm, partially passivated, metal basis)
20.	*Cobalt Nanopowder (Co, 99.8%, 28 nm, carbon coated, metal basis)
21.	*Chromium Nanopowder (Cr, 99.9%, 35-45 nm, metal basis)

No.	Product Descriptions
22.	*Copper Nanopowder (Cu, 99.9%, 90-250 nm, metal basis)
23.	*Copper Nanopowder (Cu, 99.9%, 100nm, metal basis)
24.	*Copper Nanopowder (Cu, 99.9%, 70nm, metal basis)
25.	*Copper Nanopowder (Cu, 99.9%, 40 nm, metal basis)
26.	*Iron Nanopowder (Fe, 99.5+%, 95-105nm, metal basis)
27.	*Iron Nanopowder (Fe, 99.5+%, 65-75nm, metal basis)
28.	*Iron Nanopowder (Fe, 99.5+%, 35-45nm, metal basis)
29.	*Iron Nanopowder (Fe, 99.5%, 25 nm, partially passivated, Matal basis)
30.	*Iron Nanopowder (Fe, 99.5%, 25 nm, carbon coated, Matal basis)
31.	*Molybdenum Nanopowder (Mo, 99.9%, 35-45 nm, metal basis)
32.	*Nickel Nanopowder (Ni, 99.9%, <70 nm, metal basis)
33.	*Nickel Nanopowder (Ni, 99.9%, 40 nm, metal basis)
34.	*Nickel Nanopowder (Ni, 99.9%, 25nm, partially passivated, metal basis)
35.	*Nickel Nanopowder (Ni, 99.9%, 25nm, carbon coated, metal basis)
36.	*Silicon Nanopowder (Si, >99%, 100nm, Polycrystalline Nanopowder&Nanowire mixed)
37.	*Silicon Nanopowder (Si, 99+%, 50-80 nm, Monocrystalline)
38.	*Silicon Nanopowder (Si, 98+%, <80 nm, laser Synthesized, Polycrystalline structure )
39.	*Silicon Nanopowder (Si, 98+%, 50-70 nm, laser Synthesized, Polycrystalline structure )
40.	*Silicon Nanopowder (Si, 98+%, 30-50 nm, laser Synthesized, Polycrystalline structure )
41.	*Silicon Nanopowder (Si, 98+%, 20-30 nm, laser Synthesized, Polycrystalline structure )
42.	*Tin Nanopowder (Sn, 99.99%, 60-80nm, metal basis)
43.	*Tantalum Nanopowder (Ta, high purity, 99.99%, 50-80 nm, metal basis)

No.	Product Descriptions
44.	*Titanium Nanopowder (Ti, 99.9%, <70nm, metal basis)
45.	*Titanium Nanopowder (Ti, 99.9+%, 30-50nm, metal basis)
46.	*Tungsten Nanopowder (W, 99.95+%, <70 nm, metal basis)
47.	*Tungsten Nanopowder (W, 99.95+%, 40-60 nm, metal basis)
48.	*Zinc Nanopowder (Zn, high purity, >99.99%, 95-105 nm, metal basis)
49.	*Zinc Nanopowder (Zn, high purity, 99.99+%, 65-75 nm, metal basis)
50.	*Zinc Nanopowder (Zn, high purity, 99.99+%, 35-45 nm, metal basis)
51.	*Ni-Ti Alloy Nanopowder, 99.9%, 30-120 nm, Ni:Ti/50:50
52.	*Sn-Cu Alloy Nanopowder, 99.9%, 40 nm-100 nm, SN:CU/9:1
53.	*Sn-Cu Alloy Nanopowder, 99.9%, 40 nm-100 nm, SN:CU/1:9
54.	*Sn-Cu Alloy Nanopowder, 99.9%, 40 nm-100 nm, SN:CU/92:8
55.	*Fe-Ni-Co Alloy Nanopowder, 99.9%, 40 nm-100 nm, Fe:Ni:Co/55:28:17
56.	*Fe-Ni Alloy Nanopowder, 99.9%, 40 nm-100 nm, Fe:Ni/5:5
57.	*Fe-Ni Alloy Nanopowder, 99.9%, 40 nm-100 nm, Fe:Ni/2:8
58.	*Fe-Cr-Co Alloy Nanopowder, 99.9%, 40 nm-100nm, Fe:Cr:Co/64:25:11
59.	*Cu-Zn Alloy Nanopowder, 99.9%, 40 nm-100 nm, Cu:Zn/5:5
60.	*Cu-Zn Alloy Nanopowder, 99.9%, 40 nm-100 nm, Cu:Zn/6:4
<b>Section 2 -- Compounds</b>	
No.	Product Descriptions
1.	*Aluminum Nitride Nanopowder (AlN, 99.5%, 65-75 nm, Hexagonal)
2.	Boron Nitride Nanopowder (BN, 99.8%, 800 nm, hexagonal)
3.	Boron Nitride Nanopowder (BN, 99.8+%, 70-80nm, hexagonal)
4.	Silicon Carbide Micronwhisker (SiC, Beta, whisker/micron, D<2.5 um, L/D>=20, 99+%)

No.	Product Descriptions
5.	Silicon Carbide SubMicron Powder (SiC, Beta, Sub-micron powder, 99+%, D<1um)
6.	Silicon Carbide Micron Powder (SiC, Beta, Micron-powder, 1-40um adjustable, 99+%)
7.	Silicon Carbide Nanopowder (SiC, beta, 99+%, <80 nm, cubic)
8.	Silicon Carbide Nanopowder (SiC, beta, 99+%, 45-65nm, cubic)
9.	Silicon Nitride Nanopowder (Si3N4, 99+%, 15-30nm, amorphous)
10.	Titanium Boride Nanopowder (TiB2, 98+%, 2-12 um)
11.	*Titanium Carbide Nanopowder (TiC, 99+%, 40-60nm, cubic)
12.	*Titanium Nitride Nanopowder (TiN, 99.2+%, 20nm, Cubic)
13.	*Tungsten Carbide Nanopowder (WC, High purity, 99.95%, 30-100 nm, black hexagonal crystals)
14.	*Zirconium Carbide Nanopowder (ZrC, 99+%, 20 nm, Cubic)
<b>Section 3 -- Oxides</b>	
No.	Product Descriptions
1.	Aluminum Oxide Nanopowder (Al2O3, alpha, 99+%, 80 nm)
2.	Aluminum Oxide Nanopowder (Al2O3, gamma, 99+%, 20 nm)
3.	Bismuth Oxide Nanopowder (Bi2O3, 99.9%, 80-200 nm)
4.	Cerium Oxide Nanopowder (CeO2, 99.97%, 10-30nm)
5.	Cobalt Oxide Nanopowder (Co3O4, >98.5%, 30-50 nm)
6.	Chromium Oxide Nanopowder (Cr2O3, 99+%, 60 nm)
7.	Copper Oxide Nanopowder (CuO, high purity, 99.5+%, 25-55nm)
8.	Copper Oxide Nanopowder (CuO, 99%, <80nm)
9.	Copper Oxide Nanopowder (CuO, 99%, 40nm)
10.	Dysprosium Oxide Nanopowder (Dy2O3, 99.9+%, 30 nm)
11.	Iron Oxide Nanopowder (Fe2O3, alpha, high purity, 99.5+%, 30 nm)

No.	Product Descriptions
12.	Iron Oxide Nanopowder (Fe <sub>2</sub> O <sub>3</sub> , alpha, 98+%, 20-40 nm)
13.	Iron Oxide Nanopowder (Fe <sub>2</sub> O <sub>3</sub> , gamma, high purity, 99.5+%, 20 nm)
14.	Iron Oxide Nanopowder (Fe <sub>2</sub> O <sub>3</sub> , gamma, 99%, 20-40 nm)
15.	Iron Oxide Nanopowder (Fe <sub>3</sub> O <sub>4</sub> , high purity, 99.5+%, 15-20 nm )
16.	Iron Oxide Nanopowder (Fe <sub>3</sub> O <sub>4</sub> , 98+%, 20-30 nm)
17.	Hafnium Oxide Nanopowder (HfO <sub>2</sub> , 99.99%, high purity, 61-80nm, Cubic)
18.	Indium Oxide Nanopowder (In <sub>2</sub> O <sub>3</sub> , High Purity , 99.995%, 20-70 nm)
19.	Indium Hydroxide Nanopowder (In(OH) <sub>3</sub> , high purity, 99.99+%, 20-70 nm)
20.	Lanthanum oxide Nanopowder (La <sub>2</sub> O <sub>3</sub> , 99.99%, <200nm)
21.	Magnesium Oxide Nanopowder (MgO, 99+%, <100 nm)
22.	Magnesium Oxide Nanopowder (MgO, 99+%, <60 nm)
23.	Magnesium Oxide Nanopowder (MgO, 99+%, 40 nm)
24.	Magnesium Oxide Nanopowder (MgO, 98+%, 20 nm)
25.	Magnesium Hydroxide Nanopowder (Mg(OH) <sub>2</sub> , 99%, 10 nm)
26.	Molybdenum Oxide Nanopowder (MoO <sub>3</sub> , 99.94+%, high purity, 13-80 nm, Orthorhombic crystal)
27.	Neodymium Oxide Nanopowder (Nd <sub>2</sub> O <sub>3</sub> , 99.9%, 30-45 nm)
28.	Nickel Oxide Nanopowder (NiO, 99%, 15-35 nm)
29.	Praseodymium oxide Nanopowder (Pr <sub>6</sub> O <sub>11</sub> , 99.9%, 15-55 nm)
30.	*Antimony Oxide Nanopowder (Sb <sub>2</sub> O <sub>3</sub> , 99.9%, 80-200 nm)
31.	Silicon Oxide Nanopowder (SiO <sub>x</sub> , 99.5+%, S-type, 15-20 nm, amorphous)
32.	Silicon Oxide Nanopowder (SiO <sub>x</sub> , 99.5+%, P-type, 15-20 nm, amorphous)
33.	Silicon Oxide Nanopowder (SiO <sub>x</sub> , 98+%, 60-70 nm, amorphous)

No.	Product Descriptions
34.	Silicon Oxide Nanopowder (SiO <sub>x</sub> , 99+%, 20-30 nm, amorphous)
35.	Silicon Oxide Nanopowder (SiO <sub>x</sub> , 95.9+%, 20-30 nm, amorphous, coated with KH570)
36.	Silicon Oxide Nanopowder (SiO <sub>x</sub> , 96.3+%, 20-30 nm, amorphous, coated with KH550)
37.	Samarium Oxide Nanopowder (Sm <sub>2</sub> O <sub>3</sub> , 99.9%, 15-45 nm)
38.	Tin Oxide Nanopowder (SnO <sub>2</sub> , 99%, 35-55nm)
39.	Titanium Oxide Nanopowder (TiO <sub>2</sub> , anatase, 99+%, 10-25 nm)
40.	Titanium Oxide Nanopowder (TiO <sub>2</sub> , anatase/rutile, 99+%, 20 nm)
41.	Titanium Oxide Nanopowder (TiO <sub>2</sub> , rutile, high purity, 99.9+%, 30 nm)
42.	Titanium Oxide Nanopowder (TiO <sub>2</sub> , rutile, 96+%, 30 nm, coated with silicon)
43.	Titanium Oxide Nanopowder (TiO <sub>2</sub> , rutile, 92+%, 30 nm, coated with silicon and aluminum)
44.	Titanium Oxide Nanopowder (TiO <sub>2</sub> , rutile, 92+%, 30 nm, coated with silicone oil)
45.	Tungsten Oxide Nanopowder (WO <sub>3</sub> , high purity, 99.95%, 23-65 nm, orthorhombic crystal)
46.	Yttrium Oxide Nanopowder (Y <sub>2</sub> O <sub>3</sub> , 99.999%, 20-40 nm)
47.	Yttrium Oxide Nanopowder (Y <sub>2</sub> O <sub>3</sub> , 99.99%, 30-45 nm)
48.	Zinc Oxide Nanopowder (ZnO, 99.9+%, 80-200 nm)
49.	Zinc Oxide Nanopowder (ZnO, 99+%, 35-45 nm)
50.	Zinc Oxide Nanopowder (ZnO, 99+%, 10-30 nm)
51.	Zirconium Oxide Nanopowder (ZrO <sub>2</sub> , 99+%, 40 nm)
52.	Zirconia-Yttria Nanopowder (ZrO <sub>2</sub> -3Y, 99.9%, 40 nm, metal basis)
53.	Zirconia-Yttria Nanopowder (ZrO <sub>2</sub> -5Y, 99.9%, 40 nm, metal basis)
54.	Zirconia-Yttria Nanopowder (ZrO <sub>2</sub> -8Y, 99.9%, 40 nm, metal basis)
55.	*Antimony Tin Oxide Nanopowder (ATO, SnO <sub>2</sub> :Sb <sub>2</sub> O <sub>3</sub> =90:10, 50nm, high purity, 99.5+%

No.	Product Descriptions
56.	*Barium Iron Oxides Nanopowder (BaFe <sub>12</sub> O <sub>19</sub> , 99.5%, 60 nm)
57.	Barium Titanate Nanopowder (BaTiO <sub>3</sub> , 99.9%, 500 nm, Tetragonal)
58.	Barium Titanate Nanopowder (BaTiO <sub>3</sub> , 99.9%, 400 nm, Tetragonal)
59.	Barium Titanate Nanopowder (BaTiO <sub>3</sub> , 99.9%, 300 nm, Tetragonal)
60.	Barium Titanate Nanopowder (BaTiO <sub>3</sub> , 99.9%, 200 nm, Tetragonal)
61.	Barium Titanate Nanopowder (BaTiO <sub>3</sub> , 99.9%, 100 nm, Cubic)
62.	Barium Titanate Nanopowder (BaTiO <sub>3</sub> , 99.9%, 50 nm, Cubic)
63.	Cobalt Iron Oxides Nanopowder (CoFe <sub>2</sub> O <sub>4</sub> , 98%, 40 nm)
64.	Indium Tin Oxide Nanopowder (ITO, In <sub>2</sub> O <sub>3</sub> :SnO <sub>2</sub> =90:10, 99.99+%, 20-70nm)
65.	Indium Tin Oxide Nanopowder (ITO, In <sub>2</sub> O <sub>3</sub> :SnO <sub>2</sub> =95:5, 99.99+%, 20-70nm)
66.	Manganese Iron oxide Nanopowder (MnFe <sub>2</sub> O <sub>4</sub> , 98.5%, 60 nm)
67.	Nickel Iron Oxide Nanopowder (NiFe <sub>2</sub> O <sub>4</sub> , 98%, 30 nm)
68.	Nickel Zinc Iron Oxide Nanopowder (Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> , 98.5%, 10-30 nm)
69.	Nickel Cobalt Iron Oxide Nanopowder (Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> , 98.5%, 40 nm)
70.	Strontium Iron Oxide Nanopowder (SrFe <sub>12</sub> O <sub>19</sub> , 99.5%, 60 nm)
71.	Yttrium Aluminate Nanopowder (Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> , YAG, high purity, 99.5+%, 30 nm)
72.	Zinc Iron Oxide Nanopowder (ZnFe <sub>2</sub> O <sub>4</sub> , 98.5%, 10- 30 nm)
73.	Zinc Cobalt Iron Oxides Nanopowder (Zn <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> , 98.5%, 40 nm)
74.	Zinc Manganese Iron Oxides Nanopowder (Zn <sub>0.5</sub> Mn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> , 98.5%, 30-60 nm)



## Section 4 -- Dispersions

No.	Product Descriptions
1.	Aluminum Oxide Nanopowder Water Dispersion (Al <sub>2</sub> O <sub>3</sub> , alpha, 20 wt%, 30 nm)
2.	Aluminum Oxide Nanopowder Water Dispersion (Al <sub>2</sub> O <sub>3</sub> , gamma, 20 wt%, 10 nm)
3.	Aluminum Oxide Nanopowder Water Dispersion (Al <sub>2</sub> O <sub>3</sub> , gamma, 20 wt%, 30 nm)
4.	Cerium Oxide Nanopowder Water Dispersion (CeO <sub>2</sub> , 20 wt%, 30-50 nm)
5.	Cerium Oxide Nanopowder Water Dispersion (CeO <sub>2</sub> , 40 wt%, 30-50 nm)
6.	Silicon Oxide Nanopowder Water Dispersion (SiO <sub>2</sub> , amorphous, 25 wt%, 30 nm )
7.	Titanium Oxide Nanopowder Water Dispersion (TiO <sub>2</sub> , Rutile, 15 wt%, 5-15 nm)
8.	Titanium Oxide Nanopowder Water Dispersion (TiO <sub>2</sub> , Rutile, 15 wt%, 5-30 nm)
9.	Titanium Oxide Nanopowder Water Dispersion (TiO <sub>2</sub> , Rutile, 40 wt%, 30-50 nm)
10.	Titanium Oxide Nanopowder Water Dispersion (TiO <sub>2</sub> , Anatase, 15 wt%, 15 nm)
11.	Titanium Oxide Nanopowder Water Dispersion (TiO <sub>2</sub> , Anatase, 15 wt%, 5-30 nm)
12.	Zinc Oxide Nanopowder Water Dispersion (ZnO, 20 wt%, 30-40 nm)

Section 5 -- MicroPowders	
No.	Product Descriptions
1.	Manganese(II,III) Oxide MicroPowder, Mn <sub>3</sub> O <sub>4</sub>
2.	Manganese Dioxide MicroPowder, MnO <sub>2</sub>
3.	Zinc Oxide MicroPowder, ZnO
4.	Tin Oxide MicroPowder, SnO <sub>2</sub>
5.	*Antimony Tin Oxide MicroPowder, ATO
6.	Bismuth Oxide MicroPowder, Bi <sub>2</sub> O <sub>3</sub>
7.	Cobalt(III) Oxide MicroPowder, Co <sub>2</sub> O <sub>3</sub>
8.	Barium Titanate MicroPowder, BaTiO <sub>3</sub>
9.	Silicon Carbide MicroPowder, SiC, (1-40um adjustable)
10.	Silicon Carbide MicroPowder, SiC, (D<1 um)
11.	Boron Nitride MicroPowder, BN
12.	Titanium Boride MicroPowder, TiB <sub>2</sub>



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