



PRODUCTS CATALOG

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1. Elemental Nanoparticles

Formula Stock # CAS #	Abbreviations used in this catalog APS: Average Particle Size, ACS: Average Crystallite Size , OD: Outside Diameter, ID: Inside Diameter SSA: Specific Surface Area.	Price (US\$/quantity)
Ag 0474DFF2 7440-22-4	Silver Powder, 99.95% (metal basis) Thickness: 80 - 500 nm Length & width: 8-10 μm SSA: 0.6-1.2 m^2/g Particle Morphology: flaky Crystallographic Structure: cubic	\$147/25g \$320/100g \$893/500g \$1,533/1kg
Ag 0474DFF1 7440-22-4	Silver Powder, 99.95% (metal basis) Thickness: 80 - 500 nm Length & width: 5-8 μm SSA: 0.7-1.3 m^2/g Particle Morphology: flaky Crystallographic Structure: cubic	\$160/25g \$347/100g \$940/500g \$1,627/1kg
Ag 0474DFF3 7440-22-4	Silver Powder, 99.95% (metal basis) Thickness: 80 - 500 nm Length & width: 2-4 μm SSA: 0.8-1.5 m^2/g Particle Morphology: flaky Crystallographic Structure: cubic	\$173/25g \$360/100g \$987/500g \$1,707/1kg
Ag 0478YD1 7440-22-4	Silver Powder, 99.5% (metal basis) APS: (20-80) X (600-1200) X (600-1200) nm SSA: 3 m^2/g Particle Morphology: flaky Crystallographic Structure: cubic	\$240/25g \$653/100g \$1,693/500g \$2,680/1kg
Ag 0472DFS3 7440-22-4	Silver Powder, 99.95% (metal basis) APS: 1.5-2.5 μm SSA: 0.4-0.8 m^2/g Particle Morphology: spherical Crystallographic Structure: cubic	\$147/25g \$320/100g \$893/500g \$1,533/1kg
Ag 0472DFS1 7440-22-4	Silver Powder, 99.95% (metal basis) APS: 250-350 nm SSA: 1.5 – 2.5 m^2/g Particle Morphology: spherical Crystallographic Structure: cubic	\$167/25g \$360/100g \$987/500g \$1,707/1kg
Ag 0471CD 7440-22-4	Silver Powder, 99% (metal basis) APS: 90-210 nm SSA: 2.40-4.42 m^2/g Particle Morphology: spherical Crystallographic Structure: cubic	\$173/25g \$413/100g \$1,173/500g \$2,027/1kg
Ag 0476JY 7440-22-4	Silver Powder, 99.5% (metal basis) APS: 35 nm SSA: 30-50 m^2/g Particle Morphology: spherical Crystallographic Structure: cubic	\$129/5g \$270/25g \$685/100g \$1,907/500g \$3,311/1kg
Ag 0477YD 7440-22-4	Silver Powder, 99.9% (metal basis) Surface coated with 0.2 wt% PVP APS: 30-50 nm SSA: 5-10 m^2/g Particle Morphology: spherical Crystallographic Structure: cubic	\$95/5g \$200/25g \$507/100g \$1,413/500g \$2,453/1kg
Ag 0477YDC 7440-22-4	Silver Powder, 99.9% (metal basis) Surface coated with 0.2 wt% oleic acid. APS: 30-50 nm SSA: 5-10 m^2/g Particle Morphology: spherical	\$200/25g \$507/100g \$1,413/500g \$2,453/1kg

	Crystallographic Structure: cubic	
Ag 0478YD1 7440-22-4	Silver Powder, 99.5% (metal basis) Thickness: 20-80 nm, width & length: 0.6-1.2 um SSA: ~ 3 m ² /g Particle Morphology: flaky Crystallographic Structure: cubic	\$240/25g \$653/100g \$1,693/500g \$2,680/1kg
Ag 0475NW2 7440-22-4 UN1170	Silver nanowires (stored in ethanol) Wire average diameter: 227 ± 80 nm Wire length: 6.1 ± 2.1 um Purity: 99.9+%	\$290/g \$950/5g \$2,250/25g \$6,900/100g
Ag 0475NW1 7440-22-4 UN1170	Silver nanowires (stored in ethanol) Wire average diameter: 274 ± 39 nm Wire length: 5.3 ± 3.3 um Purity: 99.9+%	\$290/g \$950/5g \$2,250/25g \$6,900/100g
Ag 0475NW4 7440-22-4 UN1170	Silver nanowires (stored in ethanol) Wire average diameter: 386 ± 48 nm Wire length: 8.5 ± 3.6 um Purity: 99.9+%	\$290/g \$950/5g \$2,250/25g \$6,900/100g
Ag 0475JN4 7440-22-4	Silver nanowires Wire average diameter: 800-1000 nm Wire diameter range: 500 nm ~ 1.5 um Wire length: 3~15 um Purity: 99.6%	\$258/g
Al 0136JY 7429-90-5 UN1396 Flammable	Aluminum Powder, 99+% (metal basis, O<5%) APS: 18 nm SSA: 40-60 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$95/5g \$210/25g \$450/100g \$1,380/500g \$2,600/1kg
Au 0795CD 7440-57-5	Gold Powder, 99.99+% APS: 50-100 nm SSA: 3.3 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$371/1g \$1,546/5g \$5,856/25g \$19,202/100g
Au 0796XW 7440-57-5	Gold Powder, 99.5+% APS: < 100 nm SSA: 1.3-2.2 m ² /g Particle Morphology: ~ spherical Crystallographic Structure: cubic	\$17,293/100g
B 0050YD 7440-42-8	Boron powder Purity: 98% APS: 55 nm (max < 80 nm) SSA: > 15 m ² /g	\$365/25g \$982/100g \$2950/500g \$5200/1000g
C 1310JGY 7440-44-0	Diamond Powder (black) , 52-85% APS: 4-25 nm SSA: 360-420 m ² /g Particle Morphology: spherical & flake Crystallographic Structure: cubic	\$70/5g \$120/25g \$390/100g \$1,500/500g \$2,500/1kg
C 1320JGY 7440-44-0	Diamond Powder (gray) , 95% APS: 3.2 nm SSA: 278-335 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$80/5g \$220/25g \$760/100g \$3,080/500g \$4,950/1kg
C 1321JGY 7440-44-0	Diamond Powder (gray) , 98+% APS: 6 nm SSA: ~282 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$88/5g \$245/25g \$850/100g \$3,380/500g \$5,550/1kg
C 1350SL 7440-44-0	Diamond Powder (gray) , 97+% APS: 3.5-6.5 nm SSA: 200-450 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$99/5g \$379/25g \$1,290/100g \$5,200/500g \$8,320/1kg

C 1250HT 7440-44-0	Graphite Powders, 99.9% APS: 400 nm Particle Morphology: flaky Crystallographic Structure: hexagonal	\$70/5g \$150/25g \$210/100g \$450/500g \$600/1kg
C 1211ER 7440-44-0	Carbon Nanopowder (Activated Charcoal), 99.5% APS: <50 nm SSA: 500 m ² /g Bulk Density: 3.02 - 3.30 g/cm ³	\$86/50g \$138/100g \$523/1kg
Co 0276JY 7440-48-4 UN3089 Flammable	Cobalt Powder, 99.8% (metal basis, O<10%) APS: 28 nm SSA: 40-60 m ² /g Particle Morphology: spherical Crystallographic Structure: hexagonal	\$61/5g \$109/25g \$328/100g \$1,147/500g \$2,180/1kg
Co 0277JY 7440-48-4 UN3089 Flammable	Cobalt Powder (carbon coated), 99.8% (metal basis, O<10%) APS: 28 nm SSA: 40-60 m ² /g Particle Morphology: spherical Crystallographic Structure: hexagonal	\$64/5g \$116/25g \$347/100g \$1,1216/500g \$2,311/1kg
Cr 0240XX 7440-47-3 UN3089 Flammable	Chromium Powder, 99.5% APS: 50 nm Particle Morphology: ~ spherical Crystallographic Structure: cubic	\$659/100g \$2,198/500g \$2,930/1kg
Cu 0296JY 7440-50-8 UN3089 Flammable	Copper Powder, 99.8% (metal basis, O<10%) APS: 25 nm SSA: 30-50 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$63/5g \$110/25g \$340/100g \$1,188/500g \$2,254/1kg
Cu 0297JY 7440-50-8 UN3089 Flammable	Copper Powder (carbon coated), 99.8% (metal basis, O<10%) APS: 25 nm SSA: 30-50 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$69/5g \$124/25g \$370/100g \$1,350/500g \$2,480/1kg
Cu 0298XW 7440-50-8 UN3089 Flammable	Copper Powder, 99% APS: 500 nm Particle Morphology: spherical	\$195/100g \$650/500g \$867/1kg
Fe 0266JY 7439-89-6 UN3089 Flammable	Iron Powder, 99.5% (metal basis, O<10%) APS: 25 nm SSA: 40-60 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$62/5g \$113/25g \$339/100g \$1,188/500g \$2,255/1kg
Fe 0267JY 7439-89-6 UN3089 Flammable	Iron Powder (carbon coated), 99.5% (metal basis, O<10%) APS: 25 nm SSA: 40-60 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$69/5g \$125/25g \$370/100g \$1,305/500g \$2,480/1kg
Fe 8001NJ 7439-89-6	Zero-Valent Iron Powder (passivated with iron hydroxides and iron oxides) Purity: 98+% (metal basis, O < 15%, H < 1%) APS: 100-250 nm SSA: 3-7 m ² /g Particle Morphology: ~ spherical Crystallographic Structure: cubic	\$180/5g \$380/25g \$780/100g \$1,380/500g \$1,980/1kg
Mo 0423HW 7439-98-7 UN3089 Flammable	Molybdenum (Mo) Purity: 99.5% (metal basis) APS: 70 nm SSA: Color: Morphology: spherical True density: 10.22 g/cm ³	\$110/25g \$299/100g \$810/500g \$2,280/1kg

Ni 0283HW 7440-02-0 UN3089 Flammable	Nickel Powder, 99.7+% APS: 30-50 nm SSA: 12 m ² /g Particle Morphology: Crystallographic Structure: cubic	\$144/25g \$411/100g \$1,369/500g \$1,825/1kg
Ni 0286JY 7440-02-0 UN3089 Flammable	Nickel Powder, 99.9+% (metal basis, O<10%) APS: 20 nm SSA: 40-60 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$66/5g \$120/25g \$355/100g \$1,245/500g \$2,365/1kg
Ni 0287JY 7440-02-0 UN3089 Flammable	Nickel Powder (carbon coated), 99.9+% (metal basis, O<10%) APS: 20 nm SSA: 40-60 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$72/5g \$130/25g \$390/100g \$1,370/500g \$2,600/1kg
Si 0141KE 7440-21-3 UN3089 4.1 III Flammable	Silicon Powder, Polycrystalline, >99% APS: 50 nm SSA: 80 m ² /g	\$280/100g \$1100/500g \$1950/1kg
Si 0140JS 7440-21-3 UN3089 4.1 III Flammable	Silicon (Si) Purity: > 98% APS: 50 -70 nm (max<~100nm) SSA: 30-50 m ² /g	\$365/50g \$585/100g \$1,985/500g \$2,950/1kg negotiable/10kg negotiable/100kg
Si 0141JS 7440-21-3 UN3089 4.1 III Flammable	Silicon (Si) Purity: > 98% APS: 30 - 50 nm SSA: 70-80 m ² /g	\$485/50g \$785/100g \$2,660/500g \$3,950/1kg
Si 0142JS 7440-21-3 UN3089 4.1 III Flammable	Silicon (Si) Purity: > 98% APS: 20 - 30 nm	\$535/50g \$865/100g \$2,960/500g \$4,450/1kg
Ti 0223YD 7440-32-6 UN2546 Flammable	Titanium Powder, 99%, coated with 0.1-0.2% oleic acid APS: 35 nm SSA: 12 m ² /g Particle Morphology: spherical Crystallographic Structure: hexagonal	\$295/25g \$825/100g \$2,210/500g \$3,500/1kg
Ti 0223HW 7440-32-6 UN2546 Flammable	Titanium (Ti) Purity: 99% APS: 30-50 nm SSA: 12 m ² /g Color: Morphology: True density: 4.506 g/cm ³	\$295/25g \$825/100g \$2,210/500g \$3,500/1kg
W 0745YD 7440-33-7 UN3089 Flammable	Tungsten Powder, 99% Surface coated with 0.3 wt% oleic acid APS: 50 nm SSA: ~10 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$270/25g \$640/100g \$1,920/500g \$2,950 /1kg
Zn 0303WF 7440-66-6 UN1436 Flammable	Zinc Powder, 99.5% APS: 130 nm SSA: 5-7 m ² /g Particle Morphology: spherical Crystallographic Structure: hexagonal	\$85/25g \$150/100g \$450/500g \$850/1kg
Zn 0306JY 7440-66-6 UN1436 Flammable	Zinc Powder, 99.9+% (metal basis, O<10%) APS: 35 nm SSA: 30-50 m ² /g Particle Morphology: faceted Crystallographic Structure: hexagonal	\$130/25g \$390/100g \$1,370/500g \$2,600/1kg

2. Carbon Nanotubes and Nanofibers

Formula Stock # CAS #	Abbreviations used in this catalog APS: Average Particle Size, ACS: Average Crystallite Size , OD: Outside Diameter, ID: Inside Diameter SSA: Specific Surface Area.	Price (US\$/quantity)
C 1195JN 7440-44-0	Carbon nanofibers, 95% OD: 200-500 nm, ID: 1-10 nm, Length: 10-40 um SSA: ~25 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$76/5g \$153/25g \$535/100g \$2,139/500g \$4,172/1kg
C 1188JN 7440-44-0	Graphitized Carbon nanofibers, 95% OD: 200-500 nm, ID: 1.0-10 nm, Length: 10-40 um SSA: ~25 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$85/5g \$170/25g \$594/100g \$2,377/500g \$4,635/1kg
C 1290NMG 7440-44-0	Double-walled carbon nanotubes (DWNTs) Purity: 90+% CNTs, 50+% DWNTs Outside Diameter: 1.3-5 nm, Length: 5-15 um SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$320/1g \$1,020/5g \$2,710/25g \$8,998/100g \$30,380/500g \$53,990/1kg
C 1291NMG 7440-44-0	Double-walled carbon nanotubes (DWNTs) Purity: 90+% CNTs, 20+% DWNTs Outside Diameter: 1.3-5 nm, Length: 5-15 um SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$106/1g \$340/5g \$910/25g \$2,998/100g \$11,128/500g \$21,780/1kg
C 1203YJ 7440-44-0	Multi-walled carbon nanotubes (MWNTs), 95+% OD: ≤ 8 nm, ID: 2-5 nm, Length: 10-30 um SSA: ~ 500 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$116/5g \$281/25g \$926/100g \$3,147/500g \$5,980/1kg
C 1225YJS 7440-44-0	Multi-walled carbon nanotubes (MWNTs), 95+% OD: ≤ 8 nm, ID: 2-5 nm, Length: 0.5-2 um SSA: ~ 500 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$82/1g \$180/5g \$480/25g \$1,600/100g \$6,200/500g \$11,990/1kg
C 1226NMG 7440-44-0	Multi-walled carbon nanotubes (MWNTs), 95+% OD: ≤ 10 nm, ID: 2-7 nm, Length: 5-15 um SSA: 40-600 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$87/5g \$190/25g \$625/100g \$2,115/500g \$4,010/1kg
C 1211QH 7440-44-0	Multi-walled carbon nanotubes (MWNTs), 95+% OD: 3-20 nm, ID: 1-3 nm, Length: 0.1-10 um SSA: 300-400 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$84/5g \$131/25g \$495/100g \$1,684/500g \$3,200/1kg
C 1215NMGA 7440-44-0	Aligned Multi-walled carbon nanotubes (MWNTs), Purity: 95+% OD: 10±3 nm, ID: 2-7 nm, Length: 5-15 um SSA: 40-300 m ² /g Particle Morphology: long aligned tubes Crystallographic Structure: cylindrical graphitic	\$115/5g \$275/25g \$860/100g \$2,750/500g \$4,520/1kg
C 1204YJ 7440-44-0	Multi-walled carbon nanotubes (MWNTs), 95+% OD: 8-15 nm, ID: 3-5 nm, Length: 10-50 um SSA: ~ 230 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$85/5g \$187/25g \$616/100g \$2,095/500g \$3,980 /1kg

C 1235YJS 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 8-15 nm, ID: 3-5 nm, Length: 0.5-2 μ m SSA: \sim 230 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$80/1g \$165/5g \$461/25g \$1,568/100g \$5,870/500g \$10,570/1kg
C 1205YJ 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 10-20 nm, ID: 5-10 nm, Length: 10-30 μ m SSA: 200-350 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$86/5g \$189/25g \$620/100g \$2,110/500g \$3,990/1kg
C 1236YJS 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 10-20 nm, ID: 5-10 nm, Length: 0.5-2 μ m SSA: \sim 200 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$79/1g \$160/5g \$460/25g \$1,564/100g \$5,867/500g \$10,560/1kg
C 1212TY 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 90+% OD: 10-30 nm, ID: 3-10 nm, Length: 1-10 μ m SSA: \sim 200 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$94/5g \$234/25g \$772/100g \$2,626/500g \$4,990 /1kg
C 1228NMG 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 10-30 nm, ID: 5-10 nm, Length: 5-15 μ m SSA: 40-600 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$76/5g \$123/25g \$403/100g \$1,369/500g \$2,610/1kg
C 1213NMGS 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 10-30 nm, ID: 5-10 nm, Length: 1-2 μ m SSA: 40-600 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$77/5g \$124/25g \$404/100g \$1,370/500g \$2,620/1kg
C 1229YJ 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 20-30 nm, ID: 5-10 nm, Length: 10-30 μ m SSA: \sim 110 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$83/5g \$130/25g \$464/100g \$1,579/500g \$3,000/1kg
C 1237YJS 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 20-30 nm, ID: 5-10 nm, Length: 0.5-2 μ m SSA: \sim 110 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$81/1g \$168/5g \$470/25g \$1,570/100g \$5,875/500g \$10,580/1kg
C 1230NMG 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 20-40 nm, ID: 5-10 nm, Length: 5-15 μ m SSA: 40-600 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$78/5g \$125/25g \$405/100g \$1,371/500g \$2,630/1kg
C 1214NMGS 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 20-40 nm, ID: 5-10 nm, Length: 1-2 μ m SSA: 40-600 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$79/5g \$126/25g \$406/100g \$1,372/500g \$2,640/1kg
C 1231YJ 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 30-50 nm, ID: 5-15 nm, Length: 10-20 μ m SSA: \sim 60 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$82/5g \$129/25g \$433/100g \$1,474/500g \$2,800/1kg
C 1238YJS 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 30-50 nm, ID: 5-15 nm, Length: 0.5-2 μ m SSA: \sim 60 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$77/1g \$139/5g \$386/25g \$1,310/100g \$4,910/500g \$9,320/1kg

C 1232NMG 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 40-60 nm, ID: 5-10 nm, Length: 5-15 μ m SSA: 40-600 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$80/5g \$127/25g \$407/100g \$1,373/500g \$2,650/1kg
C 1258NMG 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95% OD: 40-60 nm, Length: 1-2 μ m SSA: 60-70 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$90/5g \$255/25g \$660/100g \$2,370/500g \$3,780/1kg
C 1260NMG 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 99% OD: 40-60 nm, Length: 1-2 μ m SSA: 60-70 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$145/5g \$465/25g \$1,210/100g \$4,350/500g \$6,900/1kg
C 1233YJ 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 50-80 nm, ID: 5-15 nm, Length: 10-20 μ m SSA: ~ 40 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$75/5g \$122/25g \$402/100g \$1,368/500g \$2,600/1kg
C 1227YJS 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 50-80 nm, ID: 5-15 nm, Length: 0.5-2 μ m SSA: ~ 40 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$78/1g \$140/5g \$387/25g \$1,315/100g \$4,915/500g \$9,330/1kg
C 1234NMG 7440-44-0	Multi-walled carbon nanotubes (MWNTs) , 95+% OD: 60-100 nm, ID: 5-10 nm, Length: 5-15 μ m SSA: 40-600 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$81/5g \$128/25g \$408/100g \$1,374/500g \$2,660/1kg
C 1280NMG 7440-44-0	Single-walled carbon nanotubes (SWNTs) Purity: 90+% CNTs, 50+% SWNTs Average Diameter: 1.1 nm, Length: 5-15 μ m SSA: 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$315/1g \$1,013/5g \$2,700/25g \$8,995/100g \$30,375/500g \$53,980/1kg
C 1281YJS 7440-44-0	Single-walled carbon nanotubes (SWNTs) Purity: 90% CNTs, 60% SWNTs Average Diameter: 1.1 nm, Length: 0.5-2 μ m SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$395/1g \$1,575/5g \$6,660/25g \$20,740/100g
C 1283YJ 7440-44-0	Single-walled carbon nanotubes (SWNTs) Purity: 90% CNTs, 60% SWNTs Average Diameter: 1-2 nm, Length: 5-30 μ m SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$105/1g \$338/5g \$900/25g \$2,995/100g \$11,125/500g \$21,750/1kg
C 1284YJ 7440-44-0	Single-walled carbon nanotubes (SWNTs) Purity: 95% CNTs, 90% SWNTs Average Diameter: 1-2 nm, Length: 5-30 μ m SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$350/1g \$1,125/5g \$3,000/25g \$9,990/100g \$33,390/500g \$59,980/1kg
C 1261YJF 7440-44-0	-OH Functionalized multi-walled carbon nanotubes (MWNTs-OH) , 95+% Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% OD: \leq 8 nm, ID: 2-5 nm, Length: 10-30 μ m SSA: ~ 500 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$75/1g \$137/5g \$384/25g \$1,305/100g \$4,895/500g \$9,300/1kg

C 1262YJF 7440-44-0	-OH Functionalized multi-walled carbon nanotubes (MWNTs-OH), 95+% Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% OD: 8-15 nm, ID: 3-5 nm, Length: 10-50 um SSA: ~ 230 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$123/5g \$307/25g \$1,044/100g \$3,916/500g \$7,440/1kg
C 1263YJF 7440-44-0	-OH Functionalized multi-walled carbon nanotubes (MWNTs-OH), 95+% Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% OD: 10-20 nm, ID: 5-10 nm, Length: 10-30 um SSA: ~ 200 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$124/5g \$308/25g \$1,045/100g \$3,920/500g \$7,445/1kg
C 1264YJF 7440-44-0	-OH Functionalized multi-walled carbon nanotubes (MWNTs-OH), 95+% Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% OD: 20-30 nm, ID: 5-10 nm, Length: 0.5-20 um SSA: ~ 110 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$118/5g \$283/25g \$932/100g \$3,165/500g \$5,988/1kg
C 1265YJF 7440-44-0	-OH Functionalized multi-walled carbon nanotubes (MWNTs-OH), 95+% Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% OD: 30-50 nm, ID: 5-15 nm, Length: 10-20 um SSA: ~ 60 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$119/5g \$284/25g \$935/100g \$3,170/500g \$5,990 /1kg
C 1266YJF 7440-44-0	-OH Functionalized multi-walled carbon nanotubes (MWNTs-OH), 95+% Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% OD: 50-80 nm, ID: 5-15 nm, Length: 10-20 um SSA: ~ 40 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$122/5g \$287/25g \$945/100g \$3,185/500g \$6,005/1kg
C 1285YJF 7440-44-0	-OH Functionalized Single-walled carbon nanotubes (SWNTs-OH) Purity: 90% CNTs, 60% SWNTs Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% Average Diameter: 1-2 nm, Length: 5-30 um SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$176/1g \$570/5g \$1,510/25g \$4,998/100g \$16,878/500g \$35,100/1kg
C 1286YJF 7440-44-0	-OH Functionalized Single-walled carbon nanotubes (SWNTs-OH) Purity: 95% CNTs, 90% SWNTs Content of -OH: 1-7 wt% Mole fraction of surface carbon atoms functionalized with -OH: 21-26 mol% Average Diameter: 1-2 nm, Length: 5-30 um SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$420/1g \$1,380/5g \$3,650/25g \$11,800/100g \$38,400/500g \$75,000/1kg
C 1267YJF 7440-44-0	-COOH Functionalized multi-walled carbon nanotubes (MWNTs-COOH), 95+% Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) OD: ≤ 8 nm, ID: 2-5 nm, Length: 10-30 um SSA: ~ 500 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$76/1g \$138/5g \$385/25g \$1,308/100g \$4,905/500g \$9,310/1kg

C 1268YJF 7440-44-0	-COOH Functionalized multi-walled carbon nanotubes (MWNTs-COOH), 95+% Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) OD: 8-15 nm, ID: 3-5 nm, Length: 10-50 um SSA: ~ 230 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$125/5g \$309/25g \$1,048/100g \$3,925/500g \$7,448/1kg
C 1269YJF 7440-44-0	-COOH Functionalized multi-walled carbon nanotubes (MWNTs-COOH), 95+% Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) OD: 10-20 nm, ID: 5-10 nm, Length: 10-30 um SSA: ~ 200 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$126/5g \$310/25g \$1,050/100g \$3,930/500g \$7,450/1kg
C 1270YJF 7440-44-0	-COOH Functionalized multi-walled carbon nanotubes (MWNTs-COOH), 95+% Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) OD: 20-30 nm, ID: 5-10 nm, Length: 10-30 um SSA: ~ 110 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$117/5g \$282/25g \$930/100g \$3,160/500g \$5,985/1kg
C 1271YJF 7440-44-0	-COOH Functionalized multi-walled carbon nanotubes (MWNTs-COOH), 95+% Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) OD: 30-50 nm, ID: 5-15 nm, Length: 10-20 um SSA: ~ 60 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$120/5g \$285/25g \$938/100g \$3,175/500g \$5,995 /1kg
C 1272YJF 7440-44-0	-COOH Functionalized multi-walled carbon nanotubes (MWNTs-COOH), 95+% Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) OD: 50-80 nm, ID: 5-15 nm, Length: 10-20 um SSA: ~ 40 m ² /g Particle Morphology: long tube Crystallographic Structure: cylindrical graphitic	\$121/5g \$286/25g \$940/100g \$3,180/500g \$5,998/1kg
C 1287YJF 7440-44-0	-COOH Functionalized Single-walled carbon nanotubes (SWNTs-COOH) Purity: 90% CNTs, 60% SWNTs Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) Average Diameter: 1-2 nm, Length: 5-30 um SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$175/1g \$563/5g \$1,500/25g \$4,995 /100g \$16,875/500g \$35,000/1kg
C 1288YJF 7440-44-0	-COOH Functionalized Single-walled carbon nanotubes (SWNTs-COOH) Purity: 95% CNTs, 90% SWNTs Content of -COOH: 1-6 wt% Mole fraction of surface carbon atoms functionalized with -COOH: 8-10 mol% (including ~1/3 -OH) Average Diameter: 1-2 nm, Length: 5-30 um SSA: ~ 400 m ² /g Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$430/1g \$1,385/5g \$3,660/25g \$11,900/100g \$38,480/500g \$75,100/1kg

C 1292YJ 7440-44-0	Highly Conductive Multi-walled carbon nanotubes Purity: 95+% (Outside diameter: 50-100 nm Inside diameter: 5-10 nm Length: 5-10 um Particle Morphology: long bundled tubes Crystallographic Structure: cylindrical graphitic	\$120/25g \$398/100g \$1,328/500g \$2,500/1kg Quote/10kg+
C/Ni 1293YJ 7440-44-0/ 7440-02-0 UN3089 Flammable	Nickel(60 wt%)-coated multi-walled carbon nanotubes ~ 60 wt% Nickel + ~ 38 wt% carbon nanotubes CNT OD: 8-15 nm CNT ID: 3-5 nm CNT length 10-50 um CNT SSA: ~ 230 m ² /g	\$180/5g \$630/25g \$1,575/100g
C/Ni 1294YJ 7440-44-0/ 7440-02-0 UN3089 Flammable	Nickel(60 wt%)-coated multi-walled carbon nanotubes ~ 60 wt% Nickel + ~ 38 wt% carbon nanotubes CNT OD: 10-20 nm CNT ID: 5-10 nm CNT length: 10-30 um CNT SSA: ~ 200-350 m ² /g	\$160/5g \$560/25g \$1,400/100g
C/Ni 1295YJ 7440-44-0/ 7440-02-0 UN3089 Flammable	Nickel(60 wt%)-coated multi-walled carbon nanotubes ~ 60 wt% Nickel + ~ 38 wt% carbon nanotubes CNT OD: 20-30 nm CNT ID: 5-10 nm CNT length: 10-30 um CNT SSA: ~ 110 m ² /g	\$160/5g \$560/25g \$1,400/100g
C/Ni 1296YJ 7440-44-0/ 7440-02-0 UN3089 Flammable	Nickel(60 wt%)-coated multi-walled carbon nanotubes ~ 60 wt% Nickel + ~ 38 wt% carbon nanotubes CNT OD: 30-50 nm CNT ID: 5-15 nm CNT length: 10-20 um CNT SSA: ~ 60 m ² /g	\$140/5g \$500/25g \$1,245/100g
C/Ni 1297YJ 7440-44-0/ 7440-02-0 UN3089 Flammable	Nickel(60 wt%)-coated multi-walled carbon nanotubes ~ 60 wt% Nickel + ~ 38 wt% carbon nanotubes CNT OD: 50-80 nm CNT ID: 5-15 nm CNT length: 10-20 um CNT SSA: ~ 40 m ² /g	\$140/5g \$500/25g \$1,245/100g
C 1298YJ 7440-44-0	Coiled multi-walled carbon nanotubes CNT purity: > 95% CNT OD: 50-150 nm CNT length: 5-10 um CNT SSA: > 50 m ² /g	\$70/g \$225/5g \$600/25g \$1,990/100g
C 1299YJ 7440-44-0	Thin-walled/large-diameter multi-walled carbon nanotubes CNT purity: > 95% CNT OD: 35-60 nm CNT ID: 25-40 nm CNT length: 5-10 um CNT SSA: > 140 m ² /g	\$70/g \$225/5g \$600/25g \$1,990/100g
C 1217QW01 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on silicon substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 10-50 um Carbon nanotube site density: 10 ¹⁰ -10 ¹¹ nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$500/1 cm x 1 cm square \$650/1.5 cm x 1.5 cm square \$835/2 cm x 2 cm square \$1250/3 cm x 3 cm square \$1500/dia. 2-inch disk
C 1217QW02 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on silicon substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 100-300 um Carbon nanotube site density: 10 ¹⁰ -10 ¹¹ nanotubes/cm ² (distance between	\$500/1 cm x 1 cm square \$650/1.5 cm x 1.5 cm square \$835/2 cm x 2 cm square \$1250/3 cm x 3 cm square

	two adjacent CNTs ~ 200-300 nm)	\$1500/dia. 2-inch disk
C 1217QW03 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on silicon substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 1-1.5 mm Carbon nanotube site density: 10^{10} - 10^{11} nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$500/1 cm x 1 cm square \$650/1.5 cm x 1.5 cm square \$835/2 cm x 2 cm square \$1250/3 cm x 3 cm square \$1500/dia. 2-inch disk
C 1217QW04 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on quartz substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 10-50 um Carbon nanotube site density: 10^{10} - 10^{11} nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$530/1 cm x 1 cm square \$680/1.5 cm x 1.5 cm square \$865/2 cm x 2 cm square \$1280/3 cm x 3 cm square \$1530/dia. 2-inch disk
C 1217QW05 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on quartz substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 100-300 um Carbon nanotube site density: 10^{10} - 10^{11} nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$530/1 cm x 1 cm square \$680/1.5 cm x 1.5 cm square \$865/2 cm x 2 cm square \$1280/3 cm x 3 cm square \$1530/dia. 2-inch disk
C 1217QW06 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on quartz substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 1-1.5 mm Carbon nanotube site density: 10^{10} - 10^{11} nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$500/1 cm x 1 cm square \$650/1.5 cm x 1.5 cm square \$835/2 cm x 2 cm square \$1250/3 cm x 3 cm square \$1500/dia. 2-inch disk
C 1217QW07 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on sapphire substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 10-50 um Carbon nanotube site density: 10^{10} - 10^{11} nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$530/1 cm x 1 cm square \$680/1.5 cm x 1.5 cm square \$865/2 cm x 2 cm square \$1280/3 cm x 3 cm square \$1530/dia. 2-inch disk
C 1217QW08 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on sapphire substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 100-300 um Carbon nanotube site density: 10^{10} - 10^{11} nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$530/1 cm x 1 cm square \$680/1.5 cm x 1.5 cm square \$865/2 cm x 2 cm square \$1280/3 cm x 3 cm square \$1530/dia. 2-inch disk

C 1217QW09 7440-44-0	Vertically aligned multi-walled carbon nanotube (CNT) arrays on sapphire substrate CNT purity: > 99% CNT OD: 7-10 nm CNT ID: 5-8 nm CNT length: 1-1.5 mm Carbon nanotube site density: 10^{10} - 10^{11} nanotubes/cm ² (distance between two adjacent CNTs ~ 200-300 nm)	\$530/1 cm x 1 cm square \$680/1.5 cm x 1.5 cm square \$865/2 cm x 2 cm square \$1280/3 cm x 3 cm square \$1530/dia. 2-inch disk

3. Non-Oxide Nanoparticles

BN 1180YL 10043-11-5	Boron Nitride Powder, 99% APS: 137 nm SSA: 19.4 m ² /g Particle Morphology: irregular Crystallographic Structure: hexagonal	\$178/25g \$440/100g \$1,598/500g \$2,680/1kg
BN 1182HW 10043-11-5	Boron Nitride Powder, 99.8% APS: 0.6~1.2 um Crystallographic Structure: hexagonal	\$66/25g \$98/100g \$228/500g \$381/1kg
SiC 4621HW 409-21-2	Silicon Carbide (beta) Powder, 95+% APS: 50-60 nm Particle Morphology: spherical	\$82/25g \$113/100g \$305/500g \$548/1kg \$3913/10kg
SiC 4620KE 409-21-2	Silicon Carbide (beta) Powder, 99+% APS: 45-55 nm SSA: 70-90 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$95/25g \$131/100g \$408/500g \$638/1kg \$4,550/10kg
SiC 4633JS 409-21-2	Silicon Carbide (beta) Powder, 97+% APS: 20-30 nm SSA: 80-100 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$218/25g \$525/100g \$1,610/500g \$2,415/1kg
SiC 4625YD 409-21-2	Silicon Carbide (beta) Powder, 99% APS: 20-40 nm SSA: ~ 90 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$180/25g \$450/100g \$1,230/500g \$1,900/1kg
SiC 4631JS 409-21-2	Silicon Carbide (beta) Powder, 97+% APS: 10 nm SSA: 150-200 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$285/50g \$685/100g \$2,085/500g \$3,150/1kg
SiC 4632YD 409-21-2	Silicon Carbide (amorphous) Powder, 99+% APS: 15 nm SSA: ~ 90 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: amorphous	\$370/25g \$1,075/100g \$3,275/500g \$4,950/1kg

Si₃N₄ 4750KE 12033-89-5	Silicon Nitride Powder, 98.5+% APS: 15-30 nm SSA: 103-123 m ² /g Particle Morphology: spherical Crystallographic Structure: amorphous	\$75/25g \$118/100g \$294/500g \$4/1kg \$3,950/10kg
TiB₂ 5180HW 12045-63-5	Titanium Boride Powder, 98% APS: 2-12 um	\$78/100g \$198/500g \$295/1kg
TiC 5216KE 12070-08-5 UN3178, Flammable	Titanium Carbide Powder, 98+% APS: 40 nm SSA: ~ 40 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$92/25g \$262/100g \$874/500g \$1,165/1kg
TiC 5217KE 12070-08-5 UN3178, Flammable	Titanium Carbide Powder, 99% APS: 80-130 nm SSA: ~ 35 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$110/25g \$177/100g \$553/500g \$892/1kg
TiC_{0.7}N_{0.3} 5332HT UN3178, Flammable	Titanium Carbonitride Powder, 97+% APS: 50-80 nm SSA: 15-25 m ² /g Particle Morphology: spherical & polyhedral Crystallographic Structure: cubic	\$90/25g \$160/100g \$370/500g \$520/1kg \$3,900/10kg
TiN 5350KE 25583-20-4 UN3178, Flammable	Titanium Nitride Powder, 99+% APS: 20 nm SSA: 40-55 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$99/25g \$176/100g \$590/500g \$1,150/1kg
WC 5550ZN 12070-12-1 UN3178 Flammable	Tungsten Carbide Powder, 99.5% APS: 90-300 nm SSA: 1.1 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: hexagonal	\$70/25g \$110/100g \$250/500g \$360/1kg \$2,500/10kg
WC/Co 5560ZN8 12070-12-1 UN3178 Flammable	Tungsten-Carbide/Cobalt (Co=8wt%) Powder, 99.5% APS: 60-250 nm SSA: 1.5 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: hexagonal (WC), cubic(Co)	\$90/25g \$155/100g \$350/500g \$495/1kg \$3,500/10kg
WC/Co 5560ZN12 12070-12-1 UN3178 Flammable	Tungsten-Carbide/Cobalt (Co=12wt%) Powder, 99.5% APS: 60-250 nm SSA: 1.5 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: hexagonal (WC), cubic(Co)	\$95/25g \$175/100g \$390/500g \$550/1kg \$3,900/10kg
* YbF₃ 5670YD 13860-80-0 UN3288 Toxic	Ytterbium Fluoride/Coated w/0.3% PyDDP-18, 99% APS: 40-80 nm SSA: ~100 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: Crystalline	\$195/25g \$580/100g \$1,690/500g \$2,950/1kg Quote/10kg

4. Oxide Nanoparticles

Al₂O₃ 1005MR 1344-28-1	Aluminum Oxide (alpha) Powder, 99.97% APS: 150 nm SSA: 5-15 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: rhombohedral	\$70/100g \$120/500g \$180/1kg \$1,620/10kg
Al₂O₃ 1010HT 1344-28-1	Aluminum Oxide Powder, 99% (mainly alpha, contains 5-10% theta) APS: 80 nm SSA: 74 m ² /g Particle Morphology: spherical	\$70/100g \$120/500g \$180/1kg \$1,620/10kg

	Crystallographic Structure: rhombohedral	
Al₂O₃ 1015WW 1344-28-1	Aluminum Oxide Powder, 99.5% (mainly alpha, contains 5-10% gamma) APS: 27-43 nm SSA: 35 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: rhombohedral	\$75/100g \$140/500g \$200/1kg \$1,660/10kg
Al₂O₃ 1012HT 1344-28-1	Aluminum Oxide Powder, 99% (mainly alpha, contains 5-10% theta) APS: 30-40 nm Particle Morphology: spherical Crystallographic Structure: rhombohedral	\$75/100g \$140/500g \$200/1kg \$1,660/10kg
Al₂O₃ 1040LQS 1344-28-1	Aluminum Oxide Powder (alpha), 99.9% APS: 200 nm SSA: 3.9 m ² /g Particle Morphology: spherical	\$80/100g \$170/500g \$240/1kg \$1,820/10kg
Al₂O₃ 1030HT 1344-28-1	Aluminum Oxide (gamma) Powder, ≥ 99% APS: 40-80 nm SSA: 100-200 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$70/100g \$120/500g \$180/1kg \$1,620/10kg
Al₂O₃ 1020MR 1344-28-1	Aluminum Oxide (gamma) Powder, 99.97% APS: 20-30 nm SSA: 180 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$80/100g \$140/500g \$210/1kg \$1,820/10kg
Al₂O₃ 1041HT 1344-28-1	Aluminum Oxide (gamma) Powder, 99% APS: 10 nm SSA: >160 m ² /g Particle Morphology: nearly spherical	\$68/100g \$158/500g \$235/1kg \$1,680/10kg
Al(OH)₃ 1045HT 21645-51-2	Aluminum Hydroxide Powder, 99% APS: 15 nm Particle Morphology: ~ spherical	\$90/100g \$210/500g \$320/1kg \$2,560/10kg
B₂O₃ 1185DF 1303-86-2	Boron Oxide Powder, 98% APS: 40-80 nm SSA: 35 m ² /g Particle Morphology: spherical	\$461/25g \$1,319/100g \$4,395/500g
BaFe₁₂O₁₉ 1145FY 12047-11-9	Barium Iron Oxide Powder, 99.5% APS: 500 nm Particle Morphology: polyhedral Crystallographic Structure: hexagonal	\$80/100g \$160/500g \$240/1kg \$1,680/10kg
BaSO₄ 1141ZJ 7727-43-7	Barium Sulfate Powder, 99% APS: 100-1,000 nm Particle Morphology: irregular Crystallographic Structure: orthorhombic	\$65/25g \$85/100g \$115/500g \$155/1kg \$945/10kg
BaSO₄ 1142ZJ 7727-43-7	Barium Sulfate Powder, 99% APS: 1-5 um Particle Morphology: irregular Crystallographic Structure: orthorhombic	\$65/25g \$85/100g \$115/500g \$155/1kg \$945/10kg
BaTiO₃ 1147DY 12047-27-7	Barium Titanate Powder, 99.9% (BaO/TiO ₂ : 0.999 - 1.001) APS: 500 nm (determined from SEM) SSA: 2.0-2.2 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$85/100g \$188/500g \$280/1kg
BaTiO₃ 1146DY 12047-27-7	Barium Titanate Powder, 99.9% (BaO/TiO ₂ : 0.999 - 1.001) APS: 400 nm (determined from SEM) SSA: 2.6-2.8 m ² /g Particle Morphology: spherical	\$85/100g \$188/500g \$280/1kg

	Crystallographic Structure: tetragonal	
BaTiO₃ 1144DY 12047-27-7	Barium Titanate Powder, 99.9% (BaO/TiO ₂ : 0.999 - 1.001) APS: 300 nm (determined from SEM) SSA: 3.5-3.7 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$85/100g \$188/500g \$280/1kg
BaTiO₃ 1148DY 12047-27-7	Barium Titanate Powder, 99.9% (BaO/TiO ₂ : 0.999 - 1.001) APS: 200 nm (determined from SEM) SSA: 5.0-5.6 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$85/100g \$188/500g \$280/1kg
BaTiO₃ 1143DY 12047-27-7	Barium Titanate Powder, 99.9% (BaO/TiO ₂ : 0.999 - 1.001) APS: 100 nm (determined from SEM) SSA: 10-11 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$85/100g \$188/500g \$280/1kg
BaTiO₃ 1152YD 12047-27-7	Barium Titanate Powder, 99.8% APS: 10 nm Particle Morphology: spherical Crystallographic Structure: Cubic	\$190/25g \$485/100g \$1,870/500g \$2,450/1kg
Bi₂O₃ 1170CD 1304-76-3	Bismuth Oxide (beta) Powder, 99.9+% APS: 90 nm SSA: 3.2-3.5 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$74/25g \$148/100g \$412/500g \$618/1kg
CeO₂ 1406RE 1306-38-3	Cerium Oxide Powder, 99.9% (REO) APS: 15-30 nm SSA: 30-50 m ² /g Color: pale yellow Morphology: spherical Bulk density: < 0.2 g/cm ³ True density: 7.132 g/cm ³ Mfg. method: sol-gel	\$75/100g \$175/500g \$264/1kg \$1,848/10kg Quote/~100kg
CeO₂ 1450YS 1306-38-3	Cerium Oxide Powder, 99.9% (REO) APS: 50-105 nm SSA: 8-15 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$85/100g \$170/500g \$240/1kg \$2,160/10kg
CoFe₂O₄ 1510FY 12052-28-7	Cobalt Iron Oxide Powder, 98% APS: 35-55 nm Particle Morphology: spherical Crystallographic Structure: cubic	\$90/25g \$145/100g \$395/500g \$625/1kg \$4,375/10kg
Co_{0.5}Zn_{0.5}Fe₂O₄ 1515FY	Cobalt-Zinc Iron Oxide Powder, 98.5% APS: 15-30 nm Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$90/25g \$145/100g \$395/500g \$625/1kg \$4,375/10kg
CoO 1705YD 1307-96-6	Cobalt (II) Oxide Powder, 99.5% APS: 50 nm	\$290/100g \$790/500g \$1,250/1kg
Co₃O₄ 1710SD 1308-06-1	Cobalt (II,III) Oxide Powder, 99.8% APS: 20-30 nm SSA: 40-70 m ² /g Particle Morphology: fibrous & spherical Crystallographic Structure: cubic	\$94/100g \$328/500g \$590/1kg

Co₃O₄ 1720HT 1308-06-1	Cobalt (II,III) Oxide Powder, 99% APS: 50-80 nm SSA: ~ 10 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$81/100g \$285/500g \$513/1kg
Cr₂O₃ 1910FY 1308-38-9	Chromium Oxide Powder, 98% APS: 60 nm Particle Morphology: nearly spherical Crystallographic Structure: rhombohedral	\$80/25g \$125/100g \$315/500g \$450/1kg \$2,950/10kg
CsH₂PO₄ 1915YD 69089-35-6	Cesium Dihydrogenphosphate Powder, 99.5% APS: 45 nm Particle Morphology: nearly spherical Crystallographic Structure: monoclinic	\$298/25g \$685/100g \$2,200/500g \$3,680/1kg
CuO 2110FY 1317-38-0	Copper Oxide Powder, 99+% APS: 30-50 nm SSA: 13 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: monoclinic	\$80/100g \$160/500g \$250/1kg \$1,600/10kg
Dy₂O₃ 2252YS 1308-87-8	Dysprosium Oxide Powder, 99.9%(REO) APS: 55 nm SSA: ~ 20 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$95/25g \$195/100g \$595/500g \$995/1kg
Dy₂O₃ 2250YS 1308-87-8	Dysprosium Oxide Powder, 99.9%(REO) APS: (25±5) X (225±25) nm SSA: 18-22 m ² /g Particle Morphology: fibrous Crystallographic Structure: cubic	\$95/25g \$195/100g \$595/500g \$995/1kg
Dy₂O₃ 2251FY 1308-87-8	Dysprosium Oxide Powder, 99.9%(REO) APS: 30 nm Particle Morphology: ~ spherical Crystallographic Structure: cubic	\$99/25g \$250/100g \$750/500g \$1,250/1kg
Er₂O₃ 2350YS 12061-16-4	Erbium Oxide Powder, 99.9%(REO) APS: 41-53 nm SSA: 13-17 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$61/25g \$122/100g \$340/500g \$510/1kg
Er₂O₃ 2330RE 12061-16-4	Erbium Oxide Powder, 99.9%(REO/TREO) APS: 20-30 nm Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$358/500g \$666/1kg
Eu₂O₃ 2450YS 1308-96-9	Europium Oxide Powder, 99.99%(REO) APS: 45-58 nm (determined from SSA) SSA: 14-18 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$70/5g \$140/25g \$440/100g \$1,110/500g \$1,810/1kg
Eu₂O₃ 2411RE 1308-96-9	Europium Oxide Powder, 99.99%(REO) APS: 30-50 nm SSA: 36 m ² /g	\$82/5g \$168/25g \$454/100g \$1,364/500g \$2,320/1kg
Eu₂O₃ 2410ZQ 1308-96-9	Europium Oxide Powder, 99.995%(REO) APS: 58 nm (determined from SSA) SSA: 14 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$75/5g \$155/25g \$490/100g \$1,800/500g \$2,900/1kg
Fe₂O₃ 8004NJ 1309-37-1	Iron Oxide (alpha) Nanorods, 99+% Dia: 40-130 nm, Length: 250-600 nm SSA: 50-70 m ² /g Particle Morphology: nanorods Crystallographic Structure: rhombohedral	\$180/5g \$380/25g \$780/100g \$1,380/500g \$1,980/1kg

Fe₂O₃ 2520TR 1309-37-1	Iron Oxide (Fe ₂ O ₃ , alpha) Purity: 98+% APS: 20-30 nm SSA: >= 40 m ² /g Color: red brown Morphology: spherical	\$80/100g \$160/500g \$225/1kg \$1,600/10kg
Fe₂O₃ 2540XW 1309-37-1	Iron Oxide (gamma) Powder, 96% APS: 20-40 nm SSA: ~ 30 m ² /g Color: red brown Morphology: spherical	\$80/100g \$160/500g \$225/1kg \$1,600/10kg
Fe₃O₄ 2652FY 1317-61-9	Iron Oxide Powder, 99.5% APS: 15-20 nm Particle Morphology: spherical Crystallographic Structure: cubic	\$190/100g \$490/500g \$850/1kg quote/10kg
Fe₃O₄ 2655YD 1317-61-9	Iron Oxide Powder, 99.5% ~0.2% surfactant PVP Coated APS: 25 nm SSA: ~ 66 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$170/25g \$310/100g \$760/500g \$1,340/1kg quote/10kg
FeOOH 8003NJ 20344-49-4	Iron Hydroxide (alpha) nanorods, 99+% Dia: 50-150 nm, Length: 400-1000 nm SSA: 40-60 m ² /g Particle Morphology: nanorods	\$180/5g \$380/25g \$780/100g \$1,380/500g \$1,980/1kg
Gd₂O₃ 2680ZQ 12064-62-9	Gadolinium Oxide Powder, 99.9+% (REO) APS: 20-80 nm (from SSA) SSA: 10-40 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$70/25g \$109/100g \$280/500g \$420/1kg \$2,940/10kg
Gd₂O₃ 2681RE 12064-62-9	Gadolinium Oxide Powder, 99.9% (REO) APS: 15-30 nm SSA: 30-50 m ² /g Color: white Bulk density: < 0.2 g/cm ³ True density: 7.407 g/cm ³	\$75/25g \$109/100g \$245/500g \$370/1kg \$2,560/10kg
In₂O₃ 2710TN 1312-43-2	Indium Oxide Powder, 99.99% APS: 30-50 nm SSA: 15 m ² /g Particle Morphology: faceted (major) and rod (minor) Crystallographic Structure: cubic	\$130/5g \$240/25g \$605/100g \$1,925/500g \$2,905/1kg
In₂O₃ 2720TN 1312-43-2	Indium Oxide Powder, 99.995% APS: 30-50 nm SSA: 15 m ² /g Particle Morphology: faceted (major) and rod (minor) Crystallographic Structure: cubic	\$145/5g \$265/25g \$660/100g \$2,100/500g \$3,170/1kg
In(OH)₃ 2810TN 20661-21-6	Indium Hydroxide Powder, 99.99% APS: 20-70 nm SSA: 12.8 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$72/5g \$107/25g \$299/100g \$988/500g \$1,482/1kg
In₂O₃: SnO₂ 2730TN 50926-11-9	Indium Tin Oxide (ITO) Powder In ₂ O ₃ :SnO ₂ = 90:10 (wt), 99.99% APS: 30-50 nm SSA: 24 m ² /g Particle Morphology: irregular Crystallographic Structure: cubic	\$105/5g \$155/25g \$385/100g \$1,140/500g \$1,585/1kg
In₂O₃: SnO₂ 2731BY 50926-11-9	Indium Tin Oxide (ITO) Powder In ₂ O ₃ :SnO ₂ = 95:5 (wt), 99.99% APS: 30-50 nm SSA: 20-30 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$105/5g \$171/25g \$490/100g \$1,633/500g \$2,177/1kg

La₂O₃ 2920RE 1312-81-8	Lanthanum oxide (La ₂ O ₃) Purity: 99.99% (REO) APS: 15-30 nm SSA: 20-40 m ² /g Color: white Bulk density: < 0.2 g/cm ³ True density: 6.51 g/cm ³ Mfg. method: sol-gel	\$75/25g \$109/100g \$245/500g \$370/1kg \$2,560/10kg Quote/~100kg
La_{0.15}Sr_{0.85}MnO₃ 5730YD	Lanthanum Strontium Manganate Oxide, 99.5% APS: 35 nm Particle Morphology: spherical	\$390/100g \$1,295/500g \$2,180/1kg
Li₄Ti₅O₁₂ 3780YD	Lithium Titanium Oxide Powder Purity: 99.5% APS: 20-60 nm	\$127/25g \$430/100g \$1,440/500g \$2,400/1kg
MgAl₂O₄ 3205YD 12068-51-8	Magnesium Aluminum Oxide Powder, 99.5% APS: 30 nm SSA: ≥ 60 m ² /g Particle Morphology: spherical	\$99/25g \$240/100g \$860/500g \$1,320/1kg
MgO 3305HT 1309-48-4	Magnesium Oxide Powder, ≥ 99% APS: 100 nm SSA: ≥ 7.3 m ² /g Particle Morphology: polyhedral Crystallographic Structure: cubic	\$80/100g \$160/500g \$225/1kg \$1,600/10kg
MgO 3315HT 1309-48-4	Magnesium Oxide Powder, 99% APS: 20 nm SSA: ≥ 50 m ² /g Particle Morphology: polyhedral Crystallographic Structure: cubic	\$95/100g \$220/500g \$310/1kg \$2,450/10kg
MgO 3317YD 1309-48-4	Magnesium Oxide Powder, 99.5% APS: 50 nm SSA: ≥ 20 m ² /g	\$80/100g \$190/500g \$270/1kg \$2,080/10kg
Mg(OH)₂ 3320HT 1309-42-8	Magnesium Hydroxide Powder, 99% APS: 10 nm SSA: ≥ 80 m ² /g Particle Morphology: polyhedral	\$80/100g \$160/500g \$225/1kg \$1,600/10kg
Mn₂O₃ 3610FY 1317-34-6	Manganese Oxide Powder, 99% APS: 30 nm Particle Morphology: spherical Crystallographic Structure: tetragonal	\$199/100g \$425/500g \$825/1kg \$3,080/10kg
Mn₂O₃ 8005NJ 1317-34-6	Manganese Oxide Nanorods-Assembled Spheres, epsilon-phase, 99+% Sphere Dia: 0.3 - 1 um Rod Dia: 5-30 nm Rod Length: 80-100 nm SSA: 200-250 m ² /g Crystallographic Structure: hexagonal	\$180/5g \$380/25g \$780/100g \$1,380/500g \$1,980/1kg
MoO₃ 3851XW 1313-27-5	Molybdenum Oxide Powder, 99.5% APS: 100 nm	\$169/25g \$484/100g \$1,614/500g \$2,152/1kg
Nd₂O₃ 3950YS 1313-97-9	Neodymium Oxide Powder, 99.9% (REO) APS: 49-64 nm (determined from SSA) SSA: 13-17 m ² /g Particle Morphology: spherical Crystallographic Structure: hexagonal	\$65/25g \$109/100g \$240/500g \$360/1kg \$2,800/10kg
Nd₂O₃ 3910ZQ 1313-97-9	Neodymium Oxide Powder, 99.9% (REO) APS: 83 nm (determined from SSA) SSA: 10 m ² /g Particle Morphology: irregular Crystallographic Structure: hexagonal	\$70/25g \$125/100g \$300/500g \$450/1kg \$3,600/10kg

Nd₂O₃ 3911RE 1313-97-9	Neodymium Oxide Powder, 99.9% (REO) APS: 15-30 nm SSA: 30-50 m ² /g Color: pale violet Bulk density: < 0.2 g/cm ³ True density: 7.24 g/cm ³ Mfg. method: sol-gel	\$85/25g \$150/100g \$385/500g \$640/1kg \$4,480/10kg Quote/~100kg
NiFe₂O₄ 4110FY 12168-54-6	Nickel Iron Oxide Powder, 98% APS: 20-30 nm SSA: 59 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$70/25g \$110/100g \$360/500g \$600/1kg \$4,000/10kg
Ni_{0.5}Zn_{0.5}Fe₂O₄ 4115FY	Nickel-Zinc Iron Oxide Powder, 98.5% APS: 10-30 nm Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$90/25g \$145/100g \$395/500g \$625/1kg \$4,375/10kg
NiO 4205HT 1313-99-1	Nickel(II)Oxide Powder (Ni content = 77.5-78.8%), 99% APS: 100 nm SSA: ≥ 6 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$67/100g \$233/500g \$420/1kg
NiO 4210HT 1313-99-1	Nickel(II) Oxide Powder, 77-78% APS: 10-20 nm SSA: 50-80 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$89/100g \$311/500g \$560/1kg
Pr₆O₁₁ 4450FY 12037-29-5	Praseodymium(III,IV) Oxide Powder, 99.5% APS: 50 nm Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$85/25g \$150/100g \$385/500g \$640/1kg \$4,480/10kg
Pr₆O₁₁ 4451RE 12037-29-5	Praseodymium(III,IV) Oxide Powder, 99.9% APS: 15-30 nm SSA: 30-50 m ² /g Bulk density: < 0.2 g/cm ³ True density: 6.5 g/cm ³ Mfg. method: sol-gel	\$85/25g \$150/100g \$385/500g \$640/1kg \$4,480/10kg Quote/~100kg
Sb₂O₃ 4570CD 1309-64-4 UN1549	Antimony Oxide Powder, 99.9+% APS: 90-210 nm SSA: 15.6 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$65/100g \$110/500g \$150/1kg \$1,300/10kg
SiO₂ 4806SF 7631-86-9	Silicon Oxide Powder, quartz, 99.95% APS: D50 = 2.8 μm, D90 ~< 6 μm SSA: 4.7 m ² /g Particle Morphology: polyhedral Crystallographic Structure: hexagonal	\$65/100g \$95/500g \$125/1kg \$650/10kg
SiO₂ 4830HT 7631-86-9	Silicon Oxide Powder, 99% APS: 80 nm SSA: 440 m ² /g Particle Morphology: spherical Crystallographic Structure: amorphous	\$75/100g \$120/500g \$180/1kg \$1,620/10kg
SiO₂ 4860MR 7631-86-9	Silicon Oxide Powder, 99.5% APS: 20 nm SSA: 160±20 m ² /g Particle Morphology: spherical Crystallographic Structure: amorphous	\$75/100g \$120/500g \$180/1kg \$1,620/10kg
SiO₂ 4850MR 7631-86-9	Silicon Oxide Powder, 99.5% APS: 15 nm SSA: 640±50 m ² /g Particle Morphology: spherical, porous Crystallographic Structure: amorphous	\$75/100g \$120/500g \$180/1kg \$1,620/10kg

Sm₂O₃ 4950YS 12060-58-1	Samarium Oxide Powder, 99.9% (REO) APS: 42-55nm (determined from SSA) SSA: 18-22 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$65/25g \$109/100g \$240/500g \$360/1kg \$2,800/10kg
Sm₂O₃ 4951RE 12060-58-1	Samarium Oxide Powder, 99.9% (REO) APS: 15-30 nm SSA: 30-50 m ² /g Color: pale yellow Bulk density: < 0.2 g/cm ³ True density: 8.347g/cm ³ Mfg. method: sol-gel	\$75/25g \$109/100g \$245/500g \$370/1kg \$2,560/10kg Quote/~100kg
SnO₂ 5010FY 18282-10-5	Tin Oxide Powder, 99.5% APS: 61 nm (determined from SSA) SSA: 14.2 m ² /g Particle Morphology: faceted Crystallographic Structure: tetragonal	\$78/100g \$175/500g \$240/1kg
SnO₂ 5012YD 18282-10-5	Tin Oxide Powder, 99.5% APS: 55 nm (determined from SSA) SSA: ~30 m ² /g	\$88/100g \$195/500g \$270/1kg \$2,080/10kg
SrAl₁₂O₁₉ 5120YD	Strontium Hexaluminate Powder, 99.5% (combustion-synthesized, aggregated) APS: 20-40 nm SSA: ~ 60 m ² /g Particle Morphology: spherical Crystallographic Structure: --	\$99/25g \$240/100g \$860/500g \$1,320/1kg
SrFe₁₂O₁₉ 5140FY 12023-91-5	Strontium Dodecairon Nonadecaoxide Powder Purity: 99.5% APS: 800 nm Particle Morphology: polyhedral Crystallographic Structure: hexagonal	\$85/100g \$175/500g \$260/1kg \$1,820/10kg
SrTiO₃ 5150DY 12060-59-2	Strontium Titanate Powder Purity: 99.8% APS: 100 nm SSA: 11 m ² /g Morphology: spherical Crystallographic Structure: cubic	\$122/100g \$320/500g \$588/1kg
Tb₄O₇ 5190YS 12037-01-3	Terbium Oxide Powder, 99.95% (REO) APS: 46-60 nm (determined from SSA) SSA: 13-17 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$175/5g \$325/25g \$945/100g \$2,810/500g \$4,350/1kg
TiO₂ 5420HT 13463-67-7	Titanium Oxide (anatase) Powder, 99% APS: 10-30 nm SSA: 210±10 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$85/100g \$205/500g \$300/1kg \$2,400/10kg
TiO₂ 5430MR 13463-67-7	Titanium Oxide (anatase) Powder, 99% APS: 15 nm SSA: 240±50 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$98/100g \$243/500g \$324/1kg
TiO₂ 5480MR 13463-67-7	Titanium Oxide (rutile) Powder, 98+% APS: 10×40 nm SSA: 160±30 m ² /g Particle Morphology: needle-like Crystallographic Structure: tetragonal	\$80/100g \$200/500g \$290/1kg \$2,200/10kg
TiO₂ 5485MR 13463-67-7	Titanium Oxide (rutile) Powder, 99% APS: 50 nm SSA: 160 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$85/100g \$205/500g \$300/1kg \$2,400/10kg

WO₃ 5505YL 1314-35-8	Tungsten Oxide Powder, 99+% APS: 30-70 nm Particle Morphology: nearly spherical Crystallographic Structure: monoclinic	\$78/25g \$190/100g \$480/500g \$798/1kg \$4,880/10kg
WO₃ 5506YD 1314-35-8	Tungsten Oxide Powder, 99.5% APS: ~30 nm Particle Morphology: nearly spherical Crystallographic Structure: monoclinic	\$88/25g \$175/100g \$453/500g \$810/1kg Quote/10kg
WO₃ 5507YD 1314-35-8	Tungsten Oxide Powder, 99.5% APS: 60-120 nm Particle Morphology: nearly spherical Crystallographic Structure: monoclinic	\$78/25g \$156/100g \$402/500g \$720/1kg Quote/10kg
Y_{2.98}Ce_{0.02}Al₅O₁₂ 5569FY 12005-21-9	Yttrium Aluminum Oxide (YAG) Powder, 99.5% (Cerium doped) APS: 15-40 nm Particle Morphology: spherical Crystallographic Structure: cubic	\$99/25g \$250/100g \$750/500g \$1,200/1kg
Y_{2.98}Nd_{0.02}Al₅O₁₂ 5571FY 12005-21-9	Yttrium Aluminum Oxide (YAG) Powder, 99.5% (Neodymium doped) APS: 40 nm Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$99/25g \$250/100g \$750/500g \$1,200/1kg
Y₃Al₅O₁₂ 5572FY 12005-21-9	Yttrium Aluminum Oxide (YAG) Powder, 99% APS: 40 nm Particle Morphology: nearly spherical Crystallographic Structure: cubic	\$99/25g \$250/100g \$750/500g \$1,200/1kg
Y₂O₃ 5650YS 1314-36-9	Yttrium Oxide Powder, 99.9% (REO) APS: 32-36 nm (determined from SSA) SSA: 33-37 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$65/25g \$99/100g \$225/500g \$340/1kg \$2,350/10kg
Y₂O₃ 5610ZQ 1314-36-9	Yttrium Oxide Powder, 99.995% (REO) APS: 20-40 nm SSA: 42 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$135/25g \$210/100g \$500/500g \$840/1kg \$4,750/10kg
Y₂O₃ 5611RE 1314-36-9	Yttrium Oxide Powder, 99.99% (REO) APS: 20-40 nm SSA: 30-50 m ² /g Color: white Morphology:	\$75/25g \$109/100g \$245/500g \$370/1kg \$2,560/10kg Quote/100kg
ZnFe₂O₄ 5710FY 12063-19-3	Zinc Iron Oxide Powder, 98.5% APS: 15-30 nm Particle Morphology: spherical Crystallographic Structure: cubic	\$80/25g \$125/100g \$315/500g \$500/1kg \$3,500/10kg
ZnO 5830CD 1314-13-2	Zinc Oxide Powder, 99.9+% APS: 90 nm SSA: 4.9-6.8 m ² /g Particle Morphology: irregular Crystallographic Structure: hexagonal	\$65/100g \$105/500g \$145/1kg \$1,200/10kg
ZnO 5810HT 1314-13-2	Zinc Oxide Powder, 99.5% APS: 20 nm SSA: 50 m ² /g Particle Morphology: nearly spherical Crystallographic Structure: hexagonal	\$70/100g \$120/500g \$180/1kg \$1,620/10kg
ZrO₂ 5931ZS 1314-23-4	Zirconium Oxide Powder 99.0% (metal basis excluding Hf, Hf < 3 wt%) APS: 20nm SSA: 30-60 m ² /g Particle Morphology: spherical	\$75/25g \$120/100g \$290/500g \$395/1kg \$2,780/10kg

	Crystallographic Structure: monoclinic (~ 95%), tetragonal (~ 5%)	
ZrO₂ 5937HT 1314-23-4	Zirconium Oxide Powder Purity: 99% Cryst. phases: monoclinic APS: 35 nm SSA >= 25 m ² /g Color: white Morphology: spherical	\$70/25g \$115/100g \$265/500g \$375/1kg \$2,550/10kg
ZrO₂ + 3mol% Y₂O₃ 5950LQ 64417-98-7	Zirconium Oxide Powder, yttria stabilized Purity: 99.9% (metal basis excluding Hf, Hf = 2-3 wt%) APS: 58-76 nm SSA: 13.5-17.5 m ² /g Particle Morphology: spherical Crystallographic Structure: monoclinic (70% vol) and tetragonal (30% vol)	\$70/25g \$115/100g \$265/500g \$375/1kg \$2,550/10kg
ZrO₂ + 3mol% Y₂O₃ 5932ZS 64417-98-7	Zirconium Oxide Powder, yttria stabilized Purity: 99.9% (metal basis excluding Hf, Hf < 3 wt%) APS: 20-30 nm SSA: 30-60 m ² /g Particle Morphology: spherical Crystallographic Structure: monoclinic (10-30% vol) and tetragonal (70-90% vol)	\$80/25g \$130/100g \$315/500g \$415/1kg \$3,025/10kg
ZrO₂ + 8mol% Y₂O₃ 5970LQA 64417-98-7	Zirconium Oxide Powder, yttria stabilized Purity: 99.9% (metal basis excluding Hf, Hf = 2-3 wt%) APS: 200-300 nm (from SSA, sub-micron aggregate) SSA: 16-20 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$79/100g \$190/500g \$298/1kg
ZrO₂ + 8mol% Y₂O₃ 5933ZS 64417-98-7	Zirconium Oxide Powder, yttria stabilized Purity: 99.9% (metal basis excluding Hf, Hf < 3 wt%) APS: 20-30 nm SSA: 30-60 m ² /g Particle Morphology: spherical Crystallographic Structure: cubic	\$80/25g \$145/100g \$345/500g \$450/1kg \$3,245/10kg
ZrO₂ + 8mol% CaO 5934ZS 64417-98-7	Zirconium Oxide Powder, calcia stabilized Purity: 99.9% (metal basis excluding Hf, Hf < 3 wt%) APS: 20-30 nm SSA: 30-60 m ² /g Particle Morphology: spherical Crystallographic Structure: tetragonal	\$80/25g \$145/100g \$345/500g \$450/1kg \$3,245/10kg

5. Nanoparticles Dispersions

Al₂O₃ 7017WJWA	Aluminum Oxide Dispersion (alpha, 20 wt%, 30 nm) in Water APS: 30 nm Al ₂ O ₃ Purity: > 99.9% Appearance: white liquid Aluminum Oxide: Al ₂ O ₃ , gamma, CAS #: 1344-28-1 Water : H ₂ O, CAS#: 7732-18-5	\$89/1kg \$552/10kg Quote/10kg+
Al₂O₃ 7016WJWG	Aluminum Oxide Dispersion (gamma, 20 wt%, 10 nm) in Water APS: 10±5 nm Al ₂ O ₃ Purity: > 99.9% Appearance: transparent liquid Aluminum Oxide: Al ₂ O ₃ , gamma, CAS #: 1344-28-1 Water : H ₂ O, CAS#: 7732-18-5	\$89/1kg \$552/10kg Quote/10kg+

*Al₂O₃ 7016WJPG UN 1219	*Aluminum Oxide Dispersion (gamma, 20 wt%, 10 nm) in 2-Propanol APS: 10±5 nm Al ₂ O ₃ Purity: > 99.9% Appearance: transparent liquid Aluminum Oxide: Al ₂ O ₃ , gamma, CAS #: 1344-28-1 2-Propanol, C ₃ H ₈ O, CAS#: 67-63-0 Flammable Liquid, N.O.S., Class: 3, Packing group: II	\$125/1kg \$753/10kg Quote/10kg+
Al₂O₃ 7016WJQG	Aluminum Oxide Dispersion (gamma, 20 wt%, 10 nm) in 1,2-Propanediol APS: 10±5 nm Al ₂ O ₃ Purity: > 99.9% Appearance: transparent liquid Aluminum Oxide: Al ₂ O ₃ , gamma, CAS #: 1344-28-1 1, 2-Propanediol, C ₃ H ₈ O ₂ , CAS#: 57-55-6	\$125/1kg \$753/10kg Quote/10kg+
*Al₂O₃ 7016WJEG UN 3082	* Aluminum Oxide Dispersion (gamma, 20 wt%, 10 nm) in Ethylene Glycol APS: 10±5 nm Al ₂ O ₃ Purity: > 99.9% Appearance: transparent liquid Aluminum Oxide: Al ₂ O ₃ , gamma, CAS #: Ethylene Glycol: C ₂ H ₆ O ₂ , CAS#: 107-21-1 Environmentally hazardous substances, liquid, n.o.s., Class 9, Packing group III	\$123/1kg \$752/10kg Quote/10kg+
Al₂O₃ 7017WJWG	Aluminum Oxide Dispersion (gamma, 20 wt%, 30 nm) in Water APS: 30±10 nm Al ₂ O ₃ Purity: > 99.9% Appearance: white liquid Aluminum Oxide: Al ₂ O ₃ , gamma, CAS #: 1344-28-1 Water: H ₂ O, CAS#: 7732-18-5	\$122/1kg \$750/10kg Quote/10kg+
*Al₂O₃ /SiO₂ /TiO₂ 7018WJ UN 1219	*Aluminum-/Silicon-/Titanium- Oxide (11-23 wt%) Dispersion in 2-Propanol Components: 5-10% SiO ₂ , 5-8% Al ₂ O ₃ , 1-5%TiO ₂ Appearance: White liquid Aluminum Oxide: Al ₂ O ₃ , CAS #: 1344-28-1 Silicon Oxide: SiO ₂ , CAS#: 13463-67-7 Titanium Oxide: TiO ₂ , CAS#: 13463-67-7 2-Propanol, C ₃ H ₈ O, CAS#: 67-63-0 Flammable Liquid, N.O.S., Class: 3, Packing group: II	\$155/1kg \$780/10kg Quote/10kg+
Al₂O₃ /SiO₂ /TiO₂ 7018WJQ	Aluminum-/Silicon-/Titanium- Oxide (11-23 wt%) Dispersion in 1, 2-Propanediol Components: 5-10% SiO ₂ , 5-8% Al ₂ O ₃ , 1-5%TiO ₂ Appearance: White liquid Aluminum Oxide: Al ₂ O ₃ , CAS #: 1344-28-1 Silicon Oxide: SiO ₂ , CAS#: 13463-67-7 Titanium Oxide: TiO ₂ , CAS#: 13463-67-7 1, 2-Propanediol, C ₃ H ₈ O ₂ , CAS#: 57-55-6	\$155/1kg \$780/10kg Quote/10kg+
Ag (polymer coated) 7023HZ	Silver nanopowder (polymer coated), 99.99% Particle size: ≤ 15 nm Composition: 10% silver + 90% polymer Dispersibility: dispersible in water and organic solvents Color: black	Quote
Ag (polymer coated) 7024HZ	Silver nanopowder (polymer coated), 99.99% Particle size: ≤ 15 nm Composition: 25% silver + 75% polymer Dispersibility: dispersible in water and organic solvents Color: black	Quote
ATO 7025HZW	Antimony Tin Oxide (ATO) in Water ATO Content: 0 - 50wt% variable ATO Purity: ≥ 99.95% (metal basis) ATO composition: SnO ₂ : Sb ₂ O ₃ = 90:10 (wt%) ATO Particle Size: primary APS ≤ 20 nm; secondary ≤ 60 nm Dispersion PH: 5-8 variable Appearance: blue liquid	Quote

ATO 7025HZO	Antimony Tin Oxide (ATO) in Organic Solvents ATO Content: 0 - 30wt% variable ATO Purity: $\geq 99.95\%$ (metal basis) ATO composition: SnO ₂ : Sb ₂ O ₃ = 90:10 (wt%) ATO Particle Size: primary APS ≤ 20 nm; secondary ≤ 60 nm	Quote
Au (polymer coated) 7021HZ	Gold nanopowder (polymer coated), 99.99% Particle size: ≤ 20 nm Composition: 10% gold + 90% polymer Dispersibility: dispersible in water and organic solvents Color: dark red	Quote
AZO 7027HZW	Aluminum-doped Zinc Oxide (AZO) in Water AZO Content: 0 - 20wt% variable AZO Purity: 99.99% (metal basis) AZO composition: ZnO: Al ₂ O ₃ = 97:3 (wt%) AZO Particle Size: primary APS ≤ 20 nm; secondary ≤ 100 nm	Quote
AZO 7027HZO	Aluminum-doped Zinc Oxide (AZO) in Organic Solvents AZO Content: 0 - 20wt% variable AZO Purity: 99.99% (metal basis) AZO composition: ZnO: Al ₂ O ₃ = 97:3 (wt%) AZO Particle Size: primary APS ≤ 20 nm; secondary ≤ 100 nm	Quote
C 8002HS	1 wt% Multi-walled carbon nanotubes (MWNTs) in water Purity: 95% Diameter: 20-40 nm Length: 10 -20 um SSA: > 360 m ² /g Color: black	\$120/500ml
C 8003HS	5 wt% Multi-walled carbon nanotubes (MWNTs) in water Purity: 95% Diameter: 20-40 nm Length: 10 -20 um SSA: > 360 m ² /g Color: black	\$195/500ml
C 8009RB	Product Name: Single-Walled Carbon Nanotubes (3 wt%) / Water Dispersion Nanotubes Specifications: Purity: > 95 vol% (carbon nanotubes) > 90 vol% (single-walled nanotubes) Diameter: 1-2 nm Length: 5-30 um SSA: ~ 400 m ² /g Color: black	\$90/10 ml \$175/25 ml \$295/50 ml \$535/100 ml \$1,890/500 ml \$3,650/1,000 ml
C 8011RB	Product Name: Multi-Walled Carbon Nanotubes (3 wt%) / Water Dispersion Nanotubes Specifications: Purity: > 90 wt% (containing $< 10\%$ metal-oxide impurity) Diameter: 9.5 nm Length: 1.5 um SSA: 250-300 m ² /g Color: black	\$85/100 ml \$195/500 ml \$380/1,000 ml
C 8013RB	Product Name: Multi-Walled Carbon Nanotubes (3 wt%) / Water Dispersion Nanotubes Specifications: Purity: > 90 wt% (ash $< 7\%$, amorphous carbon $< 3\%$) Diameter: 10-40 nm Length: 5-30 um Color: black	\$85/100 ml \$195/500 ml \$380/1,000 ml

<p>C 8020NJ</p>	<p>Product Name: Dispersible MWCNT (D 8-15 nm, L 10-50 um)</p> <p>Components: 50-60 wt% MWCNT (Diameter 8-15 nm, Length 10-50 um) > 33-43 wt% polymers < 3.5 wt% metals (Fe, Ni, La, Al, Si) < 0.5 wt% non-metals (Cl, S) < 3.0 wt% amorphous carbon</p> <p>Max. dispersibility: 79 – 106 mg/ml water 65 – 87 mg/ml ethanol 70 – 93 mg/ml DMF 72 – 96 mg/ml NMP</p> <p>Instructions for making dispersions: Ultrasound (< 150 Watts) - treating the "dispersible carbon nanotubes"/solvent mixture for 5 to 20 minutes.</p> <p>Stability of as-synthesized dispersion: 1-10 days, decreasing with the CNT concentration in solvents.</p>	<p>\$123/g \$373/5g \$1,679/25g \$5,222/100g</p>
<p>C 8021NJ</p>	<p>Product Name: Dispersible MWCNT (D 20-40 nm, L 5-30 um)</p> <p>Components: 50-70 wt% MWCNT (Diameter 20-40 nm, Length 5-30 um) > 23-43 wt% polymers < 3.5 wt% metals (Fe, Ni, La, Al, Si) < 0.5 wt% non-metals (Cl, S) < 3.0 wt% amorphous carbon</p> <p>Max. dispersibility: 68 – 98 mg/ml water 56 – 87 mg/ml ethanol 60 – 93 mg/ml DMF 62 – 96 mg/ml NMP</p> <p>Instructions for making dispersions: Ultrasound (< 150 Watts) - treating the "dispersible carbon nanotubes"/solvent mixture for 5 to 20 minutes.</p> <p>Stability of as-synthesized dispersion: 1-10 days, decreasing with the CNT concentration in solvents.</p>	<p>\$120/g \$360/5g \$1,620/25g \$5,040/100g</p>
<p>C 8022NJ</p>	<p>Product Name: Dispersible MWCNT (D 50-100 nm, L 5-10 um)</p> <p>Components: 65-70 wt% MWCNT (Diameter 50-100 nm, Length 5-10 um) > 23-28 wt% polymers < 3.5 wt% metals (Fe, Ni, La, Al, Si) < 0.5 wt% non-metals (Cl, S) < 3.0 wt% amorphous carbon</p> <p>Max. dispersibility: 68 – 79 mg/ml water 56 – 65 mg/ml ethanol 60 – 70 mg/ml DMF 62 – 72 mg/ml NMP</p>	<p>\$118/g \$357/5g \$1,607/25g \$4,998/100g</p>

	<p>Instructions for making dispersions: Ultrasound (< 150 Watts) - treating the "dispersible carbon nanotubes"/solvent mixture for 5 to 20 minutes.</p> <p>Stability of as-synthesized dispersion: 1-10 days, decreasing with the CNT concentration in solvents.</p>	
Cu (polymer coated) 7022HZ	<p>Copper nanopowder (polymer coated), 99.99% Particle size: ≤ 20 nm Composition: 10% copper + 90% polymer Dispersibility: dispersible in water and organic solvents Color: yellow</p>	Quote
Fe 8002NJ	<p>Iron Nanoparticle Dispersion (14-17wt%, 100-250 nm) in Water Iron: 98+% (metal basis, O < 15%, H < 1%) Water: 99+% APS (Fe): 100-250 nm SSA (Fe): 3-7 m²/g Iron Particle Morphology: ~ spherical</p>	<p>\$150/5g \$300/25g \$900/100g \$1,000/500g \$1,400/1kg Quote/10kg+</p>
* Fe₂O₃· H₂O 7003SZ UN1993	<p>* Iron Oxide Dispersion (Yellow, 40wt%, <100 nm) in PMA Solids: 75±5wt% Fe₂O₃· H₂O: 40±2wt% (yellow powder) APS: ≤ 100 nm Viscosity: ≤ 500 mPa.s Ultraviolet absorption: $\geq 95\%$ Appearance: Yellow-brown Iron Oxide Yellow: Fe₂O₃· H₂O, CAS#: 20344-49-4 PMA(99.5%): C₆H₁₂O₃, CAS#: 108-65-6 Flammable Liquid N.O.S., Class 3, Packing group I, II, III</p>	<p>\$72/250g \$178/1kg \$798/10kg \$4,190/100kg Quote/100kg+</p>
GZO 7028HZW	<p>Gallium-doped Zinc Oxide (GZO) in Water GZO Content: 0 - 20wt% variable GZO Purity: 99.99% (metal basis) GZO composition: ZnO: Ga₂O₃ = 99:1 (wt%) GZO Particle Size: primary APS ≤ 20 nm; secondary ≤ 100 nm</p>	Quote
GZO 7028HZO	<p>Gallium-doped Zinc Oxide (GZO) in Organic Solvents GZO Content: 0 - 20wt% variable GZO Purity: 99.99% (metal basis) GZO composition: ZnO: Ga₂O₃ = 99:1 (wt%) GZO Particle Size: primary APS ≤ 20 nm; secondary ≤ 100 nm</p>	Quote
ITO 7026HZW	<p>Indium Tin Oxide (ITO) in Water ITO Content: 0 - 30wt% variable ITO Purity: $\geq 99.99\%$ (metal basis) ITO composition: In₂O₃: SnO₂ = 90:10 (wt%) ITO Particle Size: primary APS ≤ 20 nm; secondary ≤ 60 nm Appearance: blue liquid</p>	Quote
ITO 7026HZO	<p>Indium Tin Oxide (ITO) in Organic Solvents ITO Content: 0 - 30wt% variable ITO Purity: $\geq 99.99\%$ (metal basis) ITO composition: In₂O₃: SnO₂ = 90:10 (wt%) ITO Particle Size: primary APS ≤ 20 nm; secondary ≤ 60 nm Appearance: blue liquid</p>	Quote
Pt (polymer coated) 7020HZ	<p>Platinum nanopowder (polymer coated), 99.95% Dispersibility: dispersible in water and organic solvents Composition: 10% platinum + 90% polymer Particle size: ≤ 15 nm Color: black</p>	Quote
SiO₂ 7015WJ	<p>Silicon Oxide Dispersion (25 wt%, 30 nm) in Water APS: 30 nm pH: 6-7 Ultraviolet reflection: 85% Appearance: transparent liquid Silicon Oxide: SiO₂, CAS #: 7631-86-9</p>	<p>\$58/1kg \$359/10kg \$1590/100kg Quote/100kg+</p>

	Water : H ₂ O, CAS#: 7732-18-5	
*SiO₂ 7014WJB UN 1219	*Silicon Oxide Dispersion (30 wt%, 12-30 nm) in 2-Propanol APS: 12-30 nm Ultraviolet reflection: >90% Appearance: transparent liquid Silicon Oxide: SiO ₂ , CAS #: 7631-86-9 2-Propanol, C ₃ H ₈ O, CAS#: 67-63-0 Flammable Liquid, N.O.S., Class: 3, Packing group: II	\$75/1kg \$476/10kg \$1,980/100kg Quote/100kg+
SiO₂ 7014WJQB	Silicon Oxide Dispersion (30 wt%, 12-30 nm) in 1, 2-Propanediol APS: 12-30 nm Ultraviolet reflection: >90% Appearance: transparent liquid Silicon Oxide: SiO ₂ , CAS #: 7631-86-9 1, 2-Propanediol, C ₃ H ₈ O ₂ , CAS#: 57-55-6	Quote
*SiO₂ 7014WJC UN 3082	* Silicon Oxide Dispersion (30 wt%, 12-30 nm) in Ethylene Glycol APS: 12-30 nm Ultraviolet reflection: >90% Appearance: transparent liquid Silicon Oxide: SiO ₂ , CAS #: 7631-86-9 Ethylene Glycol: C ₂ H ₆ O ₂ , CAS#: 107-21-1 Environmentally hazardous substances, liquid, n.o.s., Class 9, Packing group III	\$477/10kg \$1,985/100kg Quote/100kg+
TiO₂ 7011WJWR	Titanium Oxide Dispersion (Rutile, 15 wt%, 15 nm) in Water APS: 15 nm pH: 4-5 Appearance: transparent, white & light-blue liquid Titanium Oxide: TiO ₂ Rutile, CAS #: 1317-80-2 Water : H ₂ O, CAS#: 7732-18-5	\$185/1kg \$4985/100kg Quote/100kg+
TiO₂ 7011WJWA	Titanium Oxide Dispersion (Anatase, 15 wt%, 15 nm) in Water APS: 15 nm pH: 4-5 Appearance: transparent, white & light-blue liquid Titanium Oxide: Anatase TiO ₂ , CAS #: 1317-70-0 Water : H ₂ O, CAS#: 7732-18-5	\$79/250g \$185/1kg \$1078/10kg \$4985/100kg Quote/100kg+
*TiO₂ 7011WJPR UN 1219	*Titanium Oxide Dispersion (Rutile, 20 wt%, 15 nm) in 2-Propanol APS: 15 nm Appearance: light-blue transparent liquid Titanium Oxide: TiO ₂ Rutile, CAS #: 1317-80-2 2-Propanol, C ₃ H ₈ O, CAS#: 67-63-0 Flammable Liquid, N.O.S., Class: 3, Packing group: II	\$95/250g \$240/1kg \$1,285/10kg \$7,190/100kg Quote/100kg+
TiO₂ 7011WJQR	Titanium Oxide Dispersion (Rutile, 20 wt%, 15 nm) in 1, 2-Propanediol APS: 15 nm Appearance: light-blue transparent liquid Titanium Oxide: TiO ₂ Rutile, CAS #: 1317-80-2 1, 2-Propanediol, C ₃ H ₈ O ₂ , CAS#: 57-55-6	Quote
*TiO₂ 7011WJPA UN 1219	*Titanium Oxide Dispersion (Anatase, 20 wt%, 15 nm) in 2-Propanol APS: 15 nm Appearance: light-blue transparent liquid Titanium Oxide: Anatase TiO ₂ , CAS #: 1317-70-0 2-Propanol, C ₃ H ₈ O, CAS#: 67-63-0 Flammable Liquid, N.O.S., Class: 3, Packing group: II	\$95/250g \$240/1kg \$1,285/10kg \$7,190/100kg Quote/100kg+
TiO₂ 7011WJQA	Titanium Oxide Dispersion (Anatase, 20 wt%, 15 nm) in 1, 2-Propanediol APS: 15 nm Appearance: light-blue transparent liquid Titanium Oxide: Anatase TiO ₂ , CAS #: 1317-70-0 1, 2-Propanediol, C ₃ H ₈ O ₂ , CAS#: 57-55-6	Quote
*TiO₂ 7011WJER UN 3082	Titanium Oxide Dispersion (Rutile, 20 wt%, 15 nm) in Ethylene Glycol APS: 15 nm Appearance: light-blue transparent liquid Titanium Oxide: TiO ₂ , Rutile, CAS #: 1317-80-2 Ethylene Glycol: C ₂ H ₆ O ₂ , CAS#: 107-21-1 Environmentally hazardous substances, liquid, n.o.s., Class 9, Packing	\$96/250g \$242/1kg \$1,288/10kg \$7,200/100kg Quote/100kg+

	group III	
*TiO₂ 7011WJEA UN 3082	*Titanium Oxide Dispersion (Anatase, 20 wt%, 15 nm) in Ethylene Glycol APS: 15 nm Appearance: light-blue transparent liquid Titanium Oxide: TiO ₂ , Anatase, CAS #: 1317-70-0 Ethylene Glycol: C ₂ H ₆ O ₂ , CAS#: 107-21-1 Environmentally hazardous substances, liquid, n.o.s., Class 9, Packing group III	\$96/250g \$242/1kg \$1,288/10kg \$7,200/100kg Quote/100kg+
TiO₂ 7012WJWR	Titanium Oxide Dispersion (Rutile, 15 wt%, 5-30 nm) in Water APS: 5-30 nm pH: 6-8 Appearance: transparent, white liquid Titanium Oxide: TiO ₂ , Rutile, CAS #: 1317-80-2 Water: H ₂ O, CAS#: 7732-18-5	\$88/1kg \$482/10kg Quote/100kg+
TiO₂ 7012WJWA	Titanium Oxide Dispersion (Anatase, 15 wt%, 5-30 nm) in Water APS: 5-30 nm pH: 6-8 Appearance: transparent, white liquid Titanium Oxide: Anatase TiO ₂ , CAS #: 1317-70-0 Water: H ₂ O, CAS#: 7732-18-5	\$88/1kg \$482/10kg \$2,950/100kg Quote/100kg+
TiO₂ 7013WJWR	Titanium Oxide Dispersion (Rutile, 40 wt%, 30-50 nm) in Water APS: 30-50 nm pH: 6-8 Appearance: opaque, white liquid Titanium Oxide: Rutile TiO ₂ , CAS #: 1317-80-2 Water: H ₂ O, CAS#: 7732-18-5	\$86/1kg \$570/10kg \$2,988/100kg Quote/100kg+
ZnO 7006WJ	Zinc Oxide Dispersion (20 wt%, 40 nm) in Water Nano sized ZnO wt%: 20 wt% (pale yellow powder) ZnO purity: >99% ZnO APS: 40 nm ZnO SSA: 60±10 m ² /g ZnO Bulk Density: 0.30-0.45 g/cm ³ Zinc Oxide: ZnO, CAS #: 1314-13-2 Water: H ₂ O, CAS#: 7732-18-5	\$158/500 ML \$958/5 L Quote/100kg+

*Hazardous products