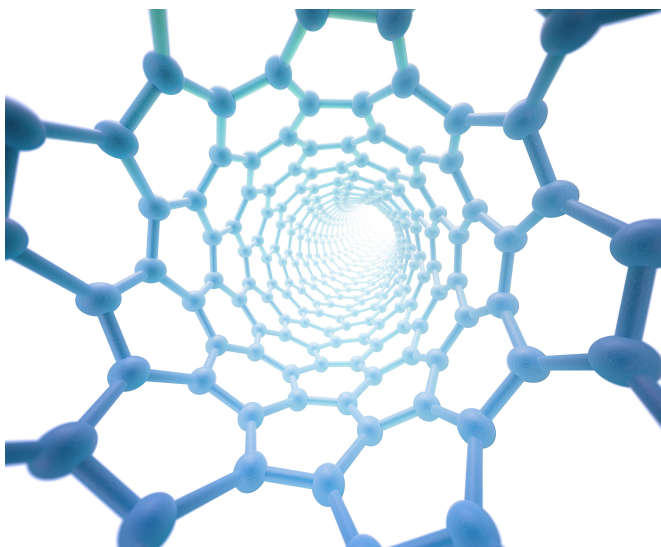


Nano-Powders



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Product No.	Substance Name	CAS No.	Purity	APS [nm]	SSA [m ² /g]	PM	Appearance
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Metal Oxides

CFF-NP001	α-Aluminium oxide Nanopowder	1344-28-1	99.9%	200	3.9	spherical	white powder
CFF-NP002	α-Aluminium oxide Nanopowder	1344-28-1	99+%	80	>15	nearly spherical	white powder
CFF-NP104	α-Aluminium oxide Nanopowder	1344-28-1	99.5%	40		nearly spherical	white powder
CFF-NP003	α-Aluminium oxide Nanopowder	1344-28-1	99.85%	150 (GS 40)	10		white powder
903570	Aluminium oxide Nanopowder (mainly alpha)	1344-28-1	99%	80	74	spherical	white powder
903571	Aluminium oxide Nanopowder (5-10% gamma)	1344-28-1	99.5%	35		nearly spherical	white powder
903569	α-Aluminium oxide Nanopowder	1344-28-1	99.97%	150	5-15	nearly spherical	white powder
903573	gamma-Aluminium oxide Nanopowder	1344-28-1	99.97%	20	180	nearly spherical	white powder
CFF-NP004	gamma-Aluminium oxide Nanopowder	1344-28-1	99+%	20	<200	spherical	white powder
CFF-NP005	gamma-Aluminium oxide Nanopowder	1344-28-1	99.9%	<50	>200	needles	white powder
CFF-NP006	gamma-Aluminium oxide Nanopowder	1344-28-1	99.9%	5	>300	fibrous	white powder
903600	Antimony(III) oxide Nanopowder	1309-64-4	99.5%	90-210	15.6	spherical	white powder
CFF-NP007	Antimony tin oxide (ATO) Nanopowder	12673-86-8	99.95%	100	7-15		light blue powder
CFF-NP008	Antimony tin oxide (ATO) Nanopowder	12673-86-8	99.95%	10-20	40-60		blue powder
903575	Barium titanate Nanopowder	12047-27-7	99.6%	85-128	8-12	spherical	white powder
CFF-NP009	Barium titanate Nanopowder	12047-27-7	99.95%	100	>10	cubic	white powder
CFF-NP103	Barium titanate Nanopowder	12047-27-7	99.95%	50	~20	cubic	white powder
903450	Bismuth(III) oxide (beta) Nanopowder	1304-76-3	99.9+%	90	2.9	spherical	
903577	Cerium(IV) oxide Nanopowder	1306-38-3	99.9%	15-30	30-50	spherical	pale yellow powder
CFF-NP012	Cerium(IV) oxide Nanopowder	1306-38-3	99.95%	50-80	11-17		white powder
CFF-NP013	Chromium(III) oxide Nanopowder	1308-38-9	99+%	60		~ spherical	green powder
903636	Cobalt(II,III) oxide Nanopowder	1308-06-1	99.8%	20-30	40-70		
903579	Copper(II) oxide Nanopowder	1317-38-0	99+%	30-50		nearly spherical	black powder
CFF-NP016	Copper(II) oxide Nanopowder	1317-38-0	99+%	40		nearly spherical	black powder
903580	Dysprosium(III) oxide Nanopowder	1308-87-8	99.9%	25x225	18-22	needles	white powder
CFF-NP017	Dysprosium(III) oxide Nanopowder	1308-87-8	99.9%	55	~20	spherical	white powder
903581	Erbium(III) oxide Nanopowder	12061-16-4	99.9%	41-53	13-17	spherical	

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Metal Oxides

903582	Erbium(III) oxide Nanopowder	12061-16-4	99.9%	43	16	nearly spherical	pink powder
903583	Europium(III) oxide Nanopowder	1308-96-9	99.99%	45-58	14-18	spherical	white powder
CFF-NP019	Gadolinium(III) oxide Nanopowder	12064-62-9	99.9%	15-30	30-50		white powder
CFF-NP020	Gadolinium(III) oxide Nanopowder	12064-62-9	99.9%	20-80	10-40	~ spherical	white powder
CFF-NP021	Hafnium(IV) oxide Nanopowder	12055-23-1	99.9%	61-80		nearly spherical	white powder
903588	Indium(III) oxide Nanopowder	1312-43-2	99.99%	30-70	15		pale yellow powder
903591	Indium tin oxide (ITO) Nanopowder (90/10 wt%)	50926-11-9	99.99%	30-70	20-25		white powder
903585	alpha-Iron(III) oxide Nanopowder	1309-37-1	98+%	20-50	>50	nearly spherical	red powder
CFF-NP024	alpha Iron (III) oxide Nanopowder, (Hämatite)	1309-37-1	99.5%	92			red powder
CFF-NP025	gamma Iron(III) oxide Nanopowder (Maghemite)	1309-37-1	99%	20-40	40-60	spherical	red brown powder
CFF-NP027	Iron(II,III) oxide Nanopowder (Magnetite)	1317-61-9	98+%	20-30	40-60	spherical	black powder
904155	Lanthanum oxide Nanopowder	1312-81-8	99.99%	15-30	20-40		white powder
903592	Magnesium oxide Nanopowder	1309-48-4	99+%	100	>7.3		white powder
903593	Magnesium oxide Nanopowder	1309-48-4	99+%	30-50	40		white powder
CFF-NP029	Magnesium oxide Nanopowder	1309-48-4	99.9%	35	>50		white powder
CFF-NP030	Magnesium oxide Nanopowder + Stearic Acid	1309-48-4	99.9%	10-30	>20		white powder
CFF-NP102	Manganese(III) oxide Nanopowder	1317-34-6	98+%	40-60			black powder
903594	Neodymium(III) oxide Nanopowder	1313-97-9	99.9%	49-64	13-17	nearly spherical	
CFF-NP031	Neodymium(III) oxide Nanopowder	1313-97-9	99.9%	~80	8-12		light blue powder
903926	Nickel(II) oxide Nanopowder	1313-99-1	99.8%	10-20	50-80	nearly spherical	black powder
CFF-NP032	Nickel(II) oxide Nanopowder	1313-99-1	99.5%	~20	>50		black powder
903604	Samarium(III) oxide Nanopowder	12060-58-1	99.9%	33-40	18-22	nearly spherical	
CFF-NP033	Samarium(III) oxide Nanopowder	12060-58-1	99.9%	30-50	12-20		white or pale yellow
903601	Silicon(IV) oxide Nanopowder	7631-86-9	99%	80	440	spherical	white powder
903602	Silicon(IV) oxide Nanopowder amorphous	7631-86-9	99.5%	10-20	140-180	spherical	white powder
CFF-NP034	Silicon(IV) oxide Nanopowder	7631-86-9	99+%	10-20	600		white powder
CFF-NP035	Silicon(IV) oxide Nanopowder amorphous	7631-86-9	99.9%	20-60	400-600	spherical	white powder

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Metal Oxides

CFF-NP036	Silicon(IV) oxide + amino group (6:1) Nanopowder	7631-86-9	99.8%	10-20	90-130		white powder
903606	Strontium titanate Nanopowder	12060-59-2	99.8%	69-104	12-18	spherical	
CFF-NP037	Strontium titanate Nanopowder	12060-59-2	99.9%	~100	>10	~ spherical	white grey powder
903607	Terbium oxide Nanopowder	12037-01-3	99.95%	45-60	13-17	spherical	
903605	Tin(IV) oxide Nanopowder	18282-10-5	99.5%	61	14		white powder
CFF-NP039	Tin(IV) oxide Nanopowder	18282-10-5	99.9%	~100	~11		white powder
903608	Titanium oxide Nanopowder, anatase	1317-70-0	99.9%	~5	150		white powder
904209	Titanium oxide Nanopowder, anatase	1317-70-0	99.5%	10-25	50-150		white powder
CFF-NP101	Titanium oxide Nanopowder, anatase	1317-70-0	99.5%	20	>120		white powder
904210	Titanium oxide Nanopowder, rutile	1317-80-2	99.5%	10-30	~50		white powder
CFF-NP041	Titanium oxide Nanopowder, rutile	1317-80-2	99%	200	8	nearly spherical	white powder
CFF-NP042	Titanium oxide Nanopowder, rutile, coated with Silicon Oil	1317-80-2	99%	20-40	40		white powder
CFF-NP043	Titanium oxide Nanopowder, rutile, coated with SiO ₂	1317-80-2	99%	20-40	>40	hydrophobic	white powder
903610	Tungsten(VI) oxide Nanopowder	1314-35-8	99+%	30-70		nearly spherical	
903611	Yttrium(III) oxide Nanopowder	1314-36-9	99.9%	32-36	33-37	spherical	white powder
903612	Yttrium(III) oxide Nanopowder	1314-36-9	99.99+%	29	42	spherical	white powder
CFF-NP044	Yttrium(III) oxide Nanopowder	1314-36-9	99.95%	30-50	30-50		white powder
903614	Zinc oxide Nanopowder	1314-13-2	99.5+%	20	50	nearly spherical	white powder
903613	Zinc oxide Nanopowder	1314-13-2	99.9%	90-210	5-7	irregular	white powder
CFF-NP046	Aluminium-doped Zinc oxide AZO (ZnO >98%, Al ₂ O ₃ <2%)	38030-55-6	99.9%	20-40	30-50		white powder
903615	Zirconium(IV) oxide Nanopowder (up to 3% Hf)	1314-23-4	99.9%	20-30	>35	spherical	white powder
903616	Zirconium(IV) oxide + 3 mol% Y ₂ O ₃ Nanopowder	1314-23-4	99%	40			white powder
903617	Zirconium(IV) oxide + 8 mol% Y ₂ O ₃ Nanopowder	1314-23-4	99%	50-65	16-20	spherical	white powder

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Metal Nitrides, Carbides and Sulfides

CFF-NP049	Aluminium(III) nitride Nanopowder	24304-00-5	99%	40-50	78	hexagonal	white powder
CFF-NP050	Aluminium(III) nitride Nanopowder	24304-00-5	99%	50	75	spherical	off-white powder
CFF-NP051	Boron carbide Nanopowder	12069-32-8	99%	<50	>75	monocrystalline	grey black powder
CFF-NP109	Boron nitride Nanopowder	10043-11-5	99%	137	19.4	hexagonal	white powder
CFF-NP052	Boron nitride Nanopowder	10043-11-5	99%	70	19.4	hexagonal	white powder
CFF-NP054	Molybdenum(IV) disulfide Nanopowder	1317-33-5	99%	90	35	nearly spherical	black powder
CFF-NP055	Silicon(IV) carbide Nanopowder (beta)	409-21-2	99%	50-60	>90	spherical	greyish powder
CFF-NP056	Silicon(IV) carbide Nanopowder (beta)	409-21-2	99%	60	30	spherical	grey powder
CFF-NP057	Silicon(IV) nitride Nanopowder (amorphous)	12033-89-5	99%	20	50	spherical	white powder
CFF-NP057SP	Silicon(IV) nitride Nanopowder (amorphous)	12033-89-5	99%	20	115	spherical	white powder
CFF-NP058	Silicon(IV) nitride Nanopowder (amorphous)	12033-89-5	99%	15-20	103-123	spherical	white or yellow powder
CFF-NP059	Titanium(IV) carbide Nanopowder	12070-08-5	99%	50	~23	spherical	black powder
CFF-NP060	Titanium(IV) carbide Nanopowder	12070-08-5	99%	40	>50	spherical	black powder
CFF-NP061	Titanium(III) nitride Nanopowder	25582-20-4	97%	20	80	spherical	black powder
CFF-NP063	Tungsten(IV) carbide Nanopowder	12070-12-1	99.95%	150-200			black powder
CFF-NP064	Tungsten(IV) disulfide Nanopowder	12138-09-9	99%	90	30	hexagonal lamellar	grey powder
CFF-NP065	Zirconium(IV) carbide Nanopowder, Hf-content ~3%	12070-14-3	97%	40	70	spherical	black powder
CFF-NP066	Zirconium(IV) carbide Nanopowder, Hf-content ~3%	12070-14-3	97%	<60	>70	spherical	black powder

ChemPUR Nanopowders

Updated 30.10.2019

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Pure Metals

CFF-NP069	Chromium Nanopowder, coated with oleic acid	7440-47-3	99.5%	50		~ spherical	grey and black powder
CFF-NP070	Cobalt Nanopowder (partially passionated)	7440-48-4	99.8%	28	40-60	spherical	grey and black powder
CFF-NP071	Copper Nanopowder (partially passionated)	7440-50-8	99.5%	25	30-50	spherical	black powder
904211	Copper Nanopowder (partially passionated)	7440-50-8	99.9%	60-80	6-8	spherical	black powder
CFF-NP073	Gold Nanopowder	7440-57-5	99.99%	50-100	3.3	spherical	dark brown powder
CFF-NP074	Iron Nanopowder (partially passionated)	7439-89-6	99.9%	25	40-60	spherical	black powder
CFF-NP075	Iron Nanopowder (partially passionated)	7439-89-6	99.9%	60-80	7	spherical	black powder
CFF-NP076	Molybdenum Nanopowder	7439-98-7	99+%	80	4-10	~ spherical	black powder
CFF-NP077	Nickel Nanopowder	7440-02-0	99.8%	20	40-60	spherical	blue and black powder
CFF-NP078	Palladium Nanopowder	7440-05-3	99.9%	80	40		black powder
CFF-NP079	Platinum Nanopowder	7440-06-4	99.9%	100	20		black powder
CFF-NP080	Silicon Nanopowder (partially passionated)	7440-21-3	99+%	<100	80	spherical	yellow / brown powder
CFF-NP081	Silver Nanopowder	7440-22-4	99.95%	~150		nearly spherical	grey powder
CFF-NP082	Silver Nanopowder, coated with fatty acids	7440-22-4	99+%	20	15-20	spherical	greenish powder
CFF-NP083	Silver Nanopowder	7440-22-4	99.5%	35	20-30	spherical	grey powder
CFF-NP084	Silver Nanopowder	7440-22-4	99.9%	50-60	~12	spherical	black powder
CFF-NP085	Stainless steel 316L Nanopowder	7439-89-6	99.9%	60-80		spherical	black powder
CFF-NP086	Tantalum Nanopowder	7440-25-7	99+%	50-80			light grey powder
CFF-NP087	Tin Nanopowder	7440-31-5	99.7%	<100	~7	spherical	black powder
904048	Titanium Nanopowder (partially passionated)	7440-32-6	99.9%	60-80	13.8	spherical	black powder
CFF-NP088	Tungsten Nanopowder (coated with Oleic Acid)	7440-33-7	99%	80-120	4-8	nearly spherical	black powder
CFF-NP089	Tungsten Nanopowder	7440-33-7	99.9%	50	~8	spherical	black powder
CFF-NP090	Zinc Nanopowder	7440-66-6	99.5%	130	6-8	spherical	grey powder

ChemPUR Nanopowders

Updated 30.10.2019

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Dispersions and Others

CFF-NP099	gamma-Aluminium oxide Nanopowder (10 wt% in 2-Propanol)	1344-28-1		15			milky liquid
CFF-NP106	Copper Nanopowder 14 wt% Dispersion in Organic Media	7440-50-8		5-7			brown to black
CFF-NP106	Copper Nanopowder 14 wt% Dispersion in Organic Media	7440-50-8		5-7			brown to black
CFF-NP115	Silicon oxide Nanopowder (40 wt% in water)	7631-86-9		20		Viscosity 13 cps	
CFF-NP094	Titanium oxide Nanopowder (rutile, 40 wt% in water)	1317-80-2		30-50			milky liquid
CFF-NP095	Titanium oxide Nanopowder (anatase, 20 wt% in 2-Propanol)	1317-80-2		15			milky liquid
CFF-NP096	Titanium oxide Nanopowder (anatase, 15 wt% in water)	1317-80-2		5-30			milky liquid
CFF-NP097	Zinc Oxide Nanopowder (20 wt% in water)	1314-13-2		40	50-~70		pale yellow
CFF-NP098	Zinc Oxide Nanopowder (40 wt% in 1-Methoxy-2-propyl acetate)	1314-13-2		20			milky liquid
CFF-NP092	Graphite Nanopowder	7782-42-5	93%	3-4	540-650	spherical	black powder
CFF-NP093	Graphite Nanopowder	7782-42-5	99.9%	400		flaky	black powder
CFF-NP110	Graphene Nanopowder	1034343-98-02	99.5%	~2	750		black powder
CFF-NP111	Graphene Nanopowder	1034343-98-02	99.5%	6-8	120-150		black powder
CFF-NP112	Graphene Nanopowder	1034343-98-02	99.5%	11-15	60-80		black powder
CFF-NP115	Graphene Nanopowder (1-10 Layer)	1034343-98-02	98+%	0.55-3.74	500-1000	Size 0.3-3 micron	black powder

