



3A Materials™

功能陶瓷材料

FUNCTIONAL CERAMIC MATERIALS

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功能陶瓷材料

3A 化学为功能陶瓷材料提供优质的原材料助力新材料的发展。



功能陶瓷材料是以电、磁、光、声、热、力学、化学和生物等信息的检测、转换、传输、处理和存储等功能为其特征的新型材料。新型功能陶瓷材料具有电绝缘性、半导体性、导电性、压电性、铁电性、磁性等特性，是微电子技术、激光技术、光纤技术、传感技术等高级技术发展不可替代的重要支撑性材料。

功能陶瓷材料根据其不同的成分和用途可以分为：电子陶瓷、半导体陶瓷、磁性陶瓷、光学陶瓷、多孔陶瓷、生物陶瓷、超导陶瓷等。3A 化学精选高纯氧化物、氮化物、氟化物、碳化物等无机材料助力新型功能陶瓷材料的研究及工业化生产。

氮化物

货号	CAS	品名	纯度规格	包装
A60505	10043-11-5	六方氮化硼 Boron nitride	hexagonal, 99.9%	25g, 100g
A60509	10043-11-5	氮化硼 Boron nitride	particle size:100nm, 99.9%	1g, 5g
A61247	24304-00-5	氮化铝 Aluminum nitride	particle size:40nm, 99.9%	25g, 100g
A61248	24304-00-5	氮化铝 Aluminum nitride	particle size:1 μ m, 99.9%	50g, 250g
A61249	24304-00-5	氮化铝 Aluminum nitride	particle size: \geq 10 μ m, 99.9%	10g, 50g
A61713	12033-89-5	氮化硅 (IV) Silicon nitride	amorphous, particle size:20nm, 99.9%	5g, 25g
A61714	12033-89-5	氮化硅 (IV) Silicon nitride	β -phase, particle size:1-3 μ m, 99.9%	25g, 100g
A61691	12033-89-5	氮化硅 (IV) Silicon nitride	α -phase, 99.9% (metals basis)	25g, 100g
A67697	12013-82-0	氮化钙 Calcium nitride	99%	5g, 25g
A62372	25583-20-4	氮化钛 Titanium nitride	99.5% (metals basis)	50g, 250g
A62373	25583-20-4	氮化钛 Titanium nitride	99.7% (metals basis)	50g, 250g
A66279	25764-10-7	氮化镧 (III) Lanthanum(III) nitride	99.9%	5g, 25g
A66996	12033-62-4	氮化钽 Tantalum nitride	99.5% (metals basis)	10g, 50g

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氧化物

货号	CAS	品名	纯度规格	包装
A60912	1309-48-4	氧化镁 Magnesium oxide	particle size:40nm, 99.9%	25g, 100g
A60913	1309-48-4	氧化镁 Magnesium oxide	99.95% (metals basis)	25g, 100g
A60892	1309-48-4	氧化镁 Magnesium oxide	99.99% (metals basis)	5g, 25g
A60914	1309-48-4	氧化镁 Magnesium oxide	99.995% (metals basis)	10g, 50g
A61250	1344-28-1	氧化铝 Aluminum oxide	particle size:30nm, 99.9%	25g
A61251	1344-28-1	氧化铝 Aluminum oxide	α-phase, 99.9% (metals basis)	100g, 500g
A61252	1344-28-1	氧化铝 Aluminum oxide	α-phase, 99.99% (metals basis)	25g, 100g
A61708	7631-86-9	二氧化硅 Silicon dioxide	particle size:20nm, 99.9%	25g, 100g
A61709	7631-86-9	二氧化硅 Silicon dioxide	particle size:1μm, 99.9%	25g, 100g
A61715	10097-28-6	氧化硅 (II) Silicon(II) oxide	99.99% (metals basis)	25g, 100g
A61716	7631-86-9	二氧化硅 Silicon dioxide	99.99% (metals basis)	25g, 100g
A67686	12042-68-1	氧化铝钙 Calcium aluminum oxide	99% (metals basis)	5g, 25g
A67698	1305-78-8	氧化钙 Calcium oxide	99.95% (metals basis)	50g, 250g
A40374	12060-08-1	氧化钪 Scandium(III) oxide	99.99%	1g, 5g
A62304	12060-08-1	氧化钪 Scandium(III) oxide	99.998%	1g, 5g
A62374	12065-65-5	氧化钛 Titanium oxide	99.9% (metals basis)	25g, 100g
A62375	12137-20-1	一氧化钛 (II) Titanium(II) oxide	99.5% (metals basis)	5g, 25g
A62376	1317-70-0	二氧化钛 (IV) Titanium(IV) oxide	anatase, particle size:20nm, 99.9%	25g, 100g
A62321	1317-80-2	二氧化钛 (IV) Titanium(IV) oxide	rutile, 99.9% (metals basis)	5g, 25g
A11380	13463-67-7	氧化钛 (IV) Titanium(IV) oxide	99%	100g, 500g
A62638	1314-62-1	五氧化二钒 Vanadium(V) oxide	99.5%	5g, 250g
A62639	1314-62-1	五氧化二钒 Vanadium(V) oxide	99.99%	1g, 5g
A43649	1308-38-9	氧化铬 (III) Chromium(III) oxide	99%	100g, 500g
A62731	1308-38-9	氧化铬 (III) Chromium(III) oxide	99.6% (metals basis)	25g, 100g
A62732	1308-38-9	氧化铬 (III) Chromium(III) oxide	99.995%	5g, 25g
A62928	1344-43-0	氧化锰 (II) Manganese(II) oxide	99.99% (metals basis)	10g, 50g
A63150	1309-37-1	氧化铁 (III) Iron(III) oxide	99.85% (metals basis)	50g, 250g
A63153	1309-37-1	氧化铁 (III) Iron(III) oxide	99.9% (metals basis)	50g, 250g
A63152	1309-37-1	α-三氧化二铁 Iron(III) oxide	α-phase, particle size:50nm, 99.9%	25g, 100g
A63154	1317-61-9	四氧化三铁 Iron(II,III) oxide	particle size:50nm, 99.9%	10g, 50g
A43648	1307-96-6	氧化钴 (II) Cobalt(II) oxide	99.99% (metals basis)	25g, 100g
A63460	1308-06-1	四氧化三钴 (II,III) Cobalt(II,III) oxide	99.7% (metals basis)	50g, 250g
A63461	1308-06-1	四氧化三钴 (II,III) Cobalt(II,III) oxide	500mesh, 99.9%	25g, 100g
A63462	1308-06-1	四氧化三钴 (II,III) Cobalt(II,III) oxide	particle size:60nm, 99.9%	25g, 100g
A63629	1313-99-1	氧化镍 (II) Nickel(II) oxide	99.995% (metals basis)	25g, 100g

氧化物

货号	CAS	品名	纯度规格	包装
A63939	1317-38-0	氧化铜 (II) Copper(II) oxide	particle size:50nm, 99.9%	10g, 50g
A63873	1317-38-0	氧化铜 (II) Copper(II) oxide	99.995% (metals basis)	5g, 25g
A63872	1317-38-0	氧化铜 (II) Copper(II) oxide	99.9995% (metals basis)	5g, 25g
A45825	1314-13-2	氧化锌 Zinc oxide	99%	500g
A64194	1314-13-2	氧化锌 Zinc oxide	particle size:20nm, 99.9%	10g, 50g
A64195	1314-13-2	氧化锌 Zinc oxide	particle size:50nm, 99.9%	100g, 500g
A64196	1314-13-2	氧化锌 Zinc oxide	99.9% (metals basis)	25g, 100g
A64197	1314-13-2	氧化锌 Zinc oxide	99.999% (metals basis)	10g, 50g
A40363	12024-21-4	氧化镓 (III) Gallium(III) oxide	99.99%	5g, 25g
A64473	12024-21-4	氧化镓 (III) Gallium(III) oxide	99.999% (metals basis)	5g, 25g
A64500	12024-21-4	氧化镓 (III) Gallium(III) oxide	99.9999%	5g, 25g
A64527	1310-53-8	氧化锗 (IV) Germanium(IV) oxide	99.99% (metals basis)	2g, 10g
A64522	1310-53-8	氧化锗 (IV) Germanium(IV) oxide	200mesh, 99.99% (metals basis)	2g, 10g
A64521	1310-53-8	氧化锗 (IV) Germanium(IV) oxide	99.999% (metals basis)	5g, 25g
A64529	1310-53-8	氧化锗 (IV) Germanium(IV) oxide	99.9999% (metals basis)	5g, 25g
A60814	1314-11-0	氧化锶 Strontium oxide	99.5% (metals basis)	5g, 25g
A60815	1314-11-0	氧化锶 Strontium oxide	99.9% (metals basis)	5g, 25g
A64755	12005-21-9	氧化铝钇 Yttrium aluminum oxide	99.99% (metals basis)	25g, 100g
A64758	1314-36-9	氧化钇 (III) Yttrium(III) oxide	99.9%	50g, 250g
A64759	1314-36-9	氧化钇 (III) Yttrium(III) oxide	particle size:50nm, 99.9%	25g, 100g
A45828	1314-36-9	氧化钇 (III) Yttrium(III) oxide	99.99%	25g, 100g
A64760	1314-36-9	氧化钇 (III) Yttrium(III) oxide	particle size:100nm, 99.99%	25g, 100g
A64751	1314-36-9	氧化钇 (III) Yttrium(III) oxide	99.999%	5g, 25g
A64876	1314-23-4	氧化锆 (IV) Zirconium(IV) oxide	HfO ₂ :2%, 99% (metals basis excluding Hf)	250g, 1kg
A64877	1314-23-4	氧化锆 (IV) Zirconium(IV) oxide	particle size:50nm, 99.9%	100g, 500g
A64878	1314-23-4	氧化锆 (IV) Zirconium(IV) oxide	particle size:1μm, 99.9%	25g, 100g
A64879	1314-23-4	氧化锆 (IV) Zirconium(IV) oxide	yttria stabilized, 99.95% (metals basis excluding Hf)	100g, 500g
A45826	1314-23-4	氧化锆 (IV) Zirconium(IV) oxide	99.99%	25g, 100g
A65024	12034-59-2	氧化铌 (IV) Niobium(IV) oxide	99.9% (metals basis)	10g, 50g
A65025	1313-96-8	氧化铌 (V) Niobium(V) oxide	99.5% (metals basis)	100g, 500g
A65026	1313-96-8	氧化铌 (V) Niobium(V) oxide	99.9% (metals basis)	100g, 500g
A65027	1313-96-8	氧化铌 (V) Niobium(V) oxide	99.99%	10g, 50g
A65028	1313-96-8	氧化铌 (V) Niobium(V) oxide	99.998% (metals basis)	50g, 250g
A65029	1313-96-8	氧化铌 (V) Niobium(V) oxide	99.9985% (metals basis)	50g, 250g
A45821	1313-27-5	氧化钼 (VI) Molybdenum(VI) oxide	99%	25g, 100g

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氧化物

货号	CAS	品名	纯度规格	包装
A45820	1313-27-5	氧化钼 (VI) Molybdenum(VI) oxide	99.95% (metals basis)	25g, 100g
A65119	1313-27-5	氧化钼 (VI) Molybdenum(VI) oxide	99.99% (metals basis)	100g, 500g
A40986	18868-43-4	二氧化钼 (IV) Molybdenum(IV) oxide	99%	25g, 100g
A65421	1306-19-0	氧化镉 Cadmium oxide	99.95%	500g, 1kg
A65405	1306-19-0	氧化镉 Cadmium oxide	99.998% (metals basis)	5g, 25g
A43949	18282-10-5	氧化锡 Tin(IV) oxide	99.5%	25g, 100g
A65633	18282-10-5	氧化锡 Tin(IV) oxide	particle size:50nm, 99.9%	25g, 100g
A65634	21651-19-4	氧化锡 (II) Tin(II) oxide	99.9% (metals basis)	25g, 100g
A65909	1309-64-4	氧化锑 (III) Antimony(III) oxide	99.9% (metals basis)	50g, 250g
A66282	1312-81-8	氧化镧 (III) Lanthanum(III) oxide	99.9% (metals basis)	50g, 250g
A45818	1312-81-8	氧化镧 (III) Lanthanum(III) oxide	99.99%	25g, 100g
A66283	1312-81-8	氧化镧 (III) Lanthanum(III) oxide	99.999%	50g, 250g
A66382	1306-38-3	氧化铈 (IV) Cerium(IV) oxide	particle size:50nm, 99.9%	25g, 100g
A66383	1306-38-3	氧化铈 (IV) Cerium(IV) oxide	99.9% (metals basis)	10g, 50g
A45807	1306-38-3	氧化铈 (IV) Cerium(IV) oxide	99.99%	100g, 500g
A43566	12037-29-5	氧化镨 (III,IV) Praseodymium(III,IV) oxide	99.99%	5g, 25g
A66510	1313-97-9	氧化钕 (III) Neodymium(III) oxide	particle size:50nm, 99.9%	5g, 50g
A45822	1313-97-9	氧化钕 (III) Neodymium(III) oxide	99.99%	5g, 25g
A66492	1313-97-9	氧化钕 (III) Neodymium(III) oxide	99.999%	5g, 25g
A66557	12060-58-1	氧化钐 (III) Samarium(III) oxide	99.9%	25g, 100g
A66558	12060-58-1	氧化钐 (III) Samarium(III) oxide	particle size:50nm, 99.9%	5g, 25g
A43571	12060-58-1	氧化钐 (III) Samarium(III) oxide	99.99%	5g, 25g
A43650	1308-96-9	氧化铕 (III) Europium(III) oxide	99.99%	1g, 5g
A66602	1308-96-9	氧化铕 (III) Europium(III) oxide	99.999%	25g, 100g
A66653	12064-62-9	氧化钆 (III) Gadolinium(III) oxide	particle size:50nm, 99.9%	25g, 100g
A45746	12064-62-9	氧化钆 (III) Gadolinium(III) oxide	99.99%	5g, 25g
A66642	12064-62-9	氧化钆 (III) Gadolinium(III) oxide	99.999%	25g, 100g
A43565	12037-01-3	氧化铽 (III,IV) Terbium(III,IV) oxide	99.99%	1g, 5g
A66753	1308-87-8	氧化镝 (III) Dysprosium(III) oxide	99.9%	5g, 25g
A45809	1308-87-8	氧化镝 (III) Dysprosium(III) oxide	99.99%	5g, 25g
A66754	1308-87-8	氧化镝 (III) Dysprosium(III) oxide	99.995%	5g, 25g
A43570	12055-62-8	氧化铥 (III) Holmium(III) oxide	99.99%	5g, 25g
A66783	12055-62-8	氧化铥 (III) Holmium(III) oxide	99.999%	1g, 5g
A43572	12061-16-4	氧化铒 Erbium(III) oxide	99.99%	5g, 25g
A66816	12061-16-4	氧化铒 Erbium(III) oxide	particle size:100nm, 99.99%	10g, 50g

氧化物

货号	CAS	品名	纯度规格	包装
A66845	12036-44-1	氧化铥 (III) Thulium(III) oxide	99.9%	2g, 10g
A66846	12036-44-1	氧化铥 (III) Thulium(III) oxide	99.99%	2g, 10g
A66847	12036-44-1	氧化铥 (III) Thulium(III) oxide	99.998%	1g, 5g
A66848	12036-44-1	氧化铥 (III) Thulium(III) oxide	99.9999%	0.25g, 1g
A43656	1314-37-0	氧化镱 (III) Ytterbium(III) oxide	99.99%	5g, 25g
A66874	1314-37-0	氧化镱 (III) Ytterbium(III) oxide	99.999%	5g, 25g
A43564	12032-20-1	氧化镱 (III) Lutetium(III) oxide	99.99%	1g, 5g
A66933	12055-23-1	氧化铪 (IV) Hafnium(IV) oxide	99.9%	2g, 10g
A66934	12055-23-1	氧化铪 (IV) Hafnium(IV) oxide	99.9% (metals basis excluding Zr)	2g, 10g
A66997	1314-61-0	氧化钽 (V) Tantalum(V) oxide	99.85% (metals basis)	25g, 100g
A66998	1314-61-0	氧化钽 (V) Tantalum(V) oxide	Nb ≤ 200ppm, 99.95% (metals basis excluding Nb)	25g, 100g
A66999	1314-61-0	氧化钽 (V) Tantalum(V) oxide	99.99% (metals basis)	10g, 50g
A67085	12036-22-5	氧化钨 (IV) Tungsten(IV) oxide	99.9% (metals basis)	5g, 25g
A45827	1314-35-8	氧化钨 Tungsten oxide	99.8% (metals basis)	25g, 100g
A67086	1314-35-8	氧化钨 Tungsten oxide	99.95%	25g, 100g
A67403	1304-76-3	氧化铋 (III) Bismuth(III) oxide	99.975% (metals basis)	50g, 250g
A67406	1304-76-3	氧化铋 (III) Bismuth(III) oxide	99.99% (metals basis)	50g, 250g
A67404	1304-76-3	氧化铋 (III) Bismuth(III) oxide	99.999% (metals basis)	10g, 50g
A67405	1304-76-3	氧化铋 (III) Bismuth(III) oxide	99.9995% (metals basis)	10g, 50g

氟化物

货号	CAS	品名	纯度规格	包装
A60915	22831-39-6	硅化镁 Magnesium silicide	99.5% (metals basis)	10g, 50g
A60916	22831-39-6	硅化镁 Magnesium silicide	99.99% (metals basis)	10g, 50g
A63463	12017-12-8	硅化钴 Cobalt silicide	99% (metals basis)	25g, 100g
A66385	12014-85-6	硅化铈 Cerium silicide	99.9%	5g, 25g

氟化物

货号	CAS	品名	纯度规格	包装
A67506	7681-49-4	氟化钠 Sodium fluoride	99.99% (metals basis)	10g 50g
A45144	7783-40-6	氟化镁 Magnesium fluoride	99%	25g 100g 500g
A61245	7784-18-1	氟化铝 Aluminum fluoride	99%	10g 50g
A67693	7789-75-5	氟化钙 Calcium fluoride	anhydrous, 99.99% (metals basis)	25g 100g 500g
A64872	7783-64-4	氟化锆 (IV) Zirconium(IV) fluoride	99.99%	5g 25g 100g
A66118	7787-32-8	氟化钡 Barium fluoride	99%	250g 1kg
A66119	7787-32-8	氟化钡 Barium fluoride	99.9% (metals basis)	25g 100g
A66120	7787-32-8	氟化钡 Barium fluoride	99.99%	2g 10g 50g
A66121	7787-32-8	氟化钡 Barium fluoride	ultra dry, 99.998% (metals basis)	10g 50g
A66273	13709-38-1	氟化镧 Lanthanum(III) fluoride	anhydrous, 99.99%	50g 250g
A66378	7758-88-5	氟化铈 (III) Cerium(III) fluoride	anhydrous, 99.9%	25g 100g 500g

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碳化物

货号	CAS	品名	纯度规格	包装
A60508	12069-32-8	碳化硼 Boron carbide	particle size:1μm, 99.9%	10g, 50g
A61705	409-21-2	碳化硅 Silicon carbide	particle size:50nm, 99.9%	25g, 100g
A61706	409-21-2	碳化硅 Silicon carbide	particle size:800nm, 99.9%	25g, 100g
A62366	12070-08-5	碳化钛 Titanium carbide	99.5% (metals basis)	50g, 250g
A62367	12070-08-5	碳化钛 Titanium carbide	particle size:30-50nm, 99.9%	5g, 25g
A62368	12070-08-5	碳化钛 Titanium carbide	particle size:3μm, 99.9%	50g, 250g
A62727	12012-35-0	碳化铬 Chromium carbide	99.5% (metals basis)	50g, 250g
A65020	12069-94-2	碳化铌 Niobium carbide	99% (metals basis)	25g, 100g
A66929	12069-85-1	碳化铪 Hafnium carbide	99.9%	1g, 10g

硼化物

货号	CAS	品名	纯度规格	包装
A60510	12007-99-7	硼化钙 Calcium boride	99.5%	5g, 25g
A60511	12008-21-8	六硼化镧 Lanthanum boride	500mesh, 99.9%	10g, 50g
A60512	12045-63-5	硼化钛 Titanium boride	particle size:50nm, 99.9%	10g, 50g
A60513	12045-63-5	硼化钛 Titanium boride	particle size:5μm, 99.9%	10g, 50g
A60514	12007-98-6	硼化钨 Tungsten boride	99.4% (metals basis)	25g, 100g
A60902	12007-25-9	硼化镁 Magnesium boride	99% (metals basis)	5g, 25g
A62726	12007-16-8	硼化铬 Chromium boride	99% (metals basis)	25g, 100g
A65018	12007-29-3	硼化铌 Niobium boride	99% (metals basis)	25g, 100g
A65117	12006-98-3	硼化钼 Molybdenum boride	99% (metals basis)	25g, 100g

钛酸及锆酸盐

货号	CAS	品名	纯度规格	包装
A62362	12004-39-6	钛酸铝 Aluminum titanate	99.5% (metals basis)	25g 100g
A62363	12032-35-8	钛酸镁 Magnesium titanium oxide	99.9%	10g 50g 250g
A62364	12060-59-2	钛酸锶 Strontium titanium oxide	99.9%	100g 500g 2500g
A62942	12032-74-5	钛酸锰(II) Manganese(II) titanium oxide	99.9% (metals basis)	10g 50g
A63466	12017-01-5	钛酸钴 Cobalt(II) titanate	99.8% (metals basis)	50g 250g
A63467	12017-01-5	钛酸钴 Cobalt(II) titanate	99.9% (metals basis)	50g 250g
A66122	12047-27-7	钛酸钡 Barium titanate(IV)	99.7% (metals basis)	100g 500g
A66123	12047-27-7	钛酸钡 Barium titanate(IV)	particle size:100nm, 99.9%	100g
A66124	12047-27-7	钛酸钡 Barium titanate(IV)	99.9% (metals basis)	25g 100g
A67700	12013-47-7	锆酸钙 Calcium zirconate	99%	25g 100g
A66125	12009-21-1	锆酸钡 Barium zirconate	99%	25g 100g



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