Oxides

The Challenge

Materion Advanced Materials, formerly CERAC, Inc., offers complete reproducibility to assure consistent high performance of all oxide compounds. Our integrated technologies and manufacturing capabilities allow us to deliver exact compositions, in the exact form you require, exactly where and when you need it!

BENEFITS

We offer a full range of inorganic oxide optical coating materials whatever your application.

- Variety of forms including granules, pellets & powders
- Purity levels up to 99.999%
- Supporting various optical wavelength ranges from UV to Far IR

GLOBAL MANUFACTURING PROCESSES

Custom oxide compositions to your exact specifications provide high yield and less down time.

- Oxide Synthesis
- Controlled Atmosphere Handling
- Chemical Analysis
- Custom Particle Sizing

OXIDE MATERIALS FOR OPTICAL COATING DEPOSITION

- Aluminum Oxide, Al₂O₃
- Antimony Oxide, Sb₂O₃
- Barium Titanate, BaTiO₃
- Bismuth Oxide, Bi₂O₃
- Boron Oxide, B₂O₃
- Cadmium Oxide, CdO
- Calcium Oxide, CaO
- Cerium Oxide, CeO₂
- Chromium Oxide, Cr₂O₃
- Dysprosium Oxide, Dy₂O₃
- Erbium Oxide, Er₂O₃
- Europium Oxide, Eu₂O₃
- Gadolinium Oxide, Gd₂O₃
- Gallium Oxide, Ga₂O₃
- Germanium Oxide, GeO₂
- Hafnium Oxide, HfO₂
- Indium Oxide, In₂O₃
- Indium-Tin Oxide, 90In₂O₃-10SnO₂ (mol%)
- Iron Oxide, Fe₂O₃
- Lanthanum Oxide, La₂O₃
- Lead Titanate, PbTiO₃
- Lutetium Oxide, Lu₂O₃
- Lithium Manganese Oxide, LiMn₂O₄
- Magnesium-Aluminum Oxide (spinel)
- Magnesium-Aluminum-Zirconium Oxide (spinel)
- Magnesium Oxide, MgO
- Molybdenum Oxide, MoO₃
- Neodymium Oxide, Nd₂O₃
- Niobium Oxide, Nb₂O₅
- Praseodymium Oxide, Pr₂O₃
- Praseodymium Oxide, Pr₂O₃
- Praseodymium Oxide, Pr₂O₃
- Rare Earth Oxides
- Samarium Oxide, Sm₂O₃
- Scandium Oxide, Sc₂O₃
- Silicon Dioxide, SiO₂
- Silicon Monoxide, SiO
- Strontium Oxide, SrO
- Tantalum Oxide, Ta₂O₅
- Terbium Oxide, Tb₂O₃
- Thorium Oxide, ThO₂
- Thulium Oxide, Tm₂O₅
- Tl Oxide, SnO₂
- Titanium Monoxide, TiO
- Titanium Sesquioxide, Ti₂O₃
- Tungsten Oxide, WO₃
- Ytterbium Oxide, Yb₂O₃
- Yttrium Oxide, Y₂O₃
- Zircon Oxide, ZrO₂
- Zirconium Oxide, ZrO₂
- Zirconium Oxide-Magnesium Oxide, ZrO₂-MgO
- Zirconium Oxide-Titanium Oxide, ZrO₂-TiO₂

MATERION ADVANCED MATERIALS is a global supplier of premier specialty materials and services. Our offerings include precious & non-precious thin film deposition materials, inorganic chemicals and microelectronic packaging products. In addition, we have related services to meet our customers’ requirements for precision parts cleaning, precious and valuable metal reclamation and R&D. We support diverse industries including medical, LED, semiconductor, data storage, precision optics, large area glass and aerospace.