

Oxide Materials

For Optical Coating Deposition

Materion offers complete reproducibility to ensure consistent high performance of oxide compounds. Our integrated technologies and manufacturing capabilities allow us to provide the materials you need.



Global Manufacturing Process

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

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

Benefits

We offer a full range of inorganic oxide optical coating materials suited for a variety of applications.

- Available forms: granules, pellets and powders
- Various high purity levels
- Supporting various optical wavelength ranges from UV to far IR

Oxide Materials for Optical Coating Deposition*

- Aluminum Oxide, Al_2O_3
- Antimony Oxide, Sb_2O_3
- Barium Titanate, BaTiO_3
- Bismuth Oxide, Bi_2O_3
- Boron Oxide, B_2O_3
- Calcium Oxide, CaO
- Cerium Oxide, CeO_2
- Chromium Oxide, Cr_2O_3
- Dysprosium Oxide, Dy_2O_3
- Europium Oxide, Eu_2O_3
- Gadolinium Oxide, Gd_2O_3
- Gallium Oxide, Ga_2O_3
- Germanium Oxide, GeO_2
- Hafnium Oxide, HfO_2
- Indium Oxide, In_2O_3
- Indium-Tin Oxide, $90\text{In}_2\text{O}_3\text{-}10\text{SnO}_2$ (wt%)
- Iron Oxide, Fe_2O_3
- Lanthanum Oxide, La_2O_3
- Lead Titanate, PbTiO_3
- Lutetium Oxide, Lu_2O_3
- Lithium Manganese Oxide, LiMn_2O_4
- Magnesium-Aluminum Oxide (spinel)
- Magnesium-Aluminum-Zirconium Oxide (spinel)
- Magnesium Oxide, MgO
- Molybdenum Oxide, MoO_3
- Neodymium Oxide, Nd_2O_3
- Niobium Oxide, Nb_2O_5
- Praseodymium Oxide, Pr_2O_3
- Scandium Oxide, Sc_2O_3
- Silicon Dioxide, SiO_2
- Strontium Oxide, SrO
- Tantalum Oxide, Ta_2O_5
- Terbium Oxide, Tb_4O_7
- Tin Oxide, SnO_2
- Titanium Dioxide, TiO_2
- Titanium Monoxide, TiO
- Tungsten Oxide, WO_3
- Ytterbium Oxide, Yb_2O_3
- Yttrium Oxide, Y_2O_3
- Zinc Oxide, ZnO
- Zirconium Oxide, ZrO_2
- Zirconium Oxide-Magnesium Oxide, $\text{ZrO}_{2-x}\text{MgO}$
- Zirconium Oxide-Titanium Oxide, $\text{ZrO}_{2-x}\text{TiO}_2$

*Additional custom oxide compositions are available upon request