



MATERION



**ADVANCED MATERIALS
GROUP**

Thin Film Optical
Coating Materials



MATERION

Thin Film **OPTICAL COATING MATERIALS**

40+ YEARS OF SUPPLY & TECHNICAL EXPERTISE

Materion Advanced Materials Group, formerly CERAC, Inc., is the industry leader in supplying the highest quality specialty inorganic materials since 1964. We draw on our decades of experience in inorganic chemical synthesis and material transformation to provide you with physical deposition (PVD) materials for use in your optical coating applications. We offer the most comprehensive technical expertise, range of products and unique materials solutions available today.

QUALITY AND CONSISTENCY

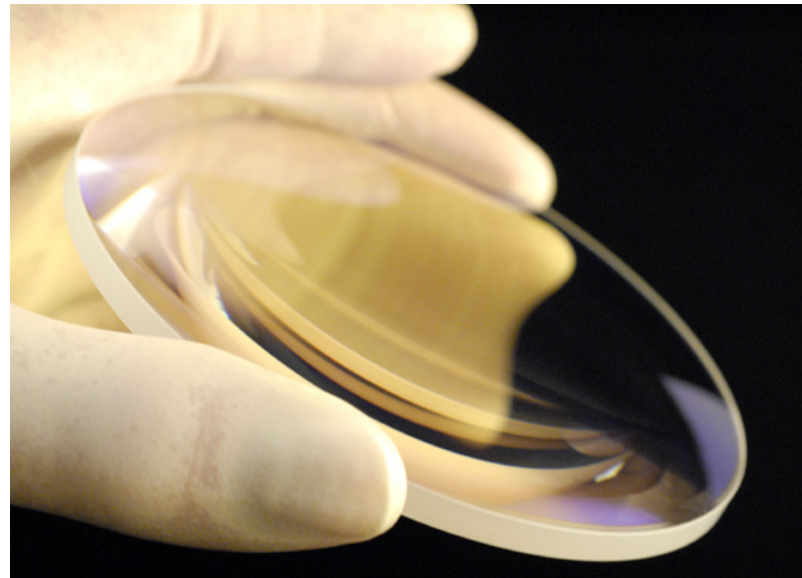
Our unique vertically integrated supply chain allows us to control every step of product development: from locating and sourcing competitive channels of raw materials; through analysis of materials to certify conformance to quality standards; throughout chemical processing, to the ultimate finished product. This approach allows us to ensure that you receive consistent, superior products in a timely manner.

TECHNICAL ENGINEERING PARTNER

We are not just suppliers, we are technical experts. Our highly dedicated workforce of scientists, engineers, and technologists partner with you to solve real-time problems. Through process consultations, we provide unparalleled levels of technical assistance for current issues and recommendations for going forward. This builds a strong relationship with our customers and makes us their First Choice as a supplier.

STRATEGIC LOCATIONS – SERVICE WHERE YOU NEED IT

With global facilities located in the United States, China, Singapore, Taiwan, UK, Netherlands and Germany, we have the capability to customize material to meet your specific requirements worldwide. Wherever you are located or whatever your needs, our materials solutions are fully scalable. We can supply small or large batches and stock product locally for cost efficiency and your convenience.



**Materion Advanced Materials Group ...
Evolving through Technical Innovation**

www.materion.com/advancedmaterials

MATERION ADVANCED MATERIALS GROUP is a global technology company that develops and manufactures inorganic chemicals and large area coating materials for applications ranging from LED products, architectural and automotive glass, solar panels & specialty thin film coatings. As the former CERAC, Inc., it was founded in the early 1930's and has been a public corporation since 1956. Materion prides itself on understanding the needs of the growing materials market. Our vertically integrated manufacturing approach allows us to provide superior coatings for virtually all applications from the deep UV to the far infrared. We employ a diverse group of chemists, metallurgists and material technologists to offer cutting-edge technologies and superior quality products.

SNAPSHOT OF BENEFITS

We meet your precise coating challenges with custom compositions or particle sizes - with fast delivery on standard products to maximize your coating up-time. Consider these advantages:

- CERAC, Inc., now Materion Advanced Materials Group
- Decades of technical expertise
- Reputation for quality products
- Specialized inorganic materials
- Global supplier/local stock
- Conflict-free material
- ISO Certification
- Engineering process consultations
- Competitive pricing
- Scalable quantities
- Customized compositions and particle sizes
- Strong customer relationships

ETHICAL STEWARDSHIP

Our commitment is to meet all global and ISO regulatory requirements as we process materials.

We pride ourselves on:

- Being environmentally responsible
- Being certified to ISO 9001, ISO 17025, and RoHs - REACH compliance
- Recycling and disposing according to all applicable regulations
- The health and safety of employees and customers is our highest priority

VALUE-ADDED SERVICES

We provide in-house, state-of-the-art knowledge and capabilities to support a broad range of industries and applications:

- Target Bonding and De-bonding
- Precision Parts Cleaning
- Precious Metals Refining & Recycling
- Reclaim of Precious Metals
- Shield Kit Cleaning

MARKETS

- Laser Optics
- Project Display Products
- Ophthalmics
- IR Filters
- Automotive Glass
- Aerospace
- Communications
- Defense
- Medical

MATERIAL PORTFOLIO – ALUMINUM TO ZIRCONIUM

We span the entire periodic table, offering hundreds of inorganic materials, custom-sized for our customers' needs.

Among them:

- Fluorides
- Oxides
- Sulfides
- Selenides
- Metallics

MATERIAL CONFIGURATIONS

Our process techniques and materials include, but are not limited to, the following:

- Pellets
- Sputtering Targets
- Electron Beam pre-melted shaped sources
- Vacuum melted granules
- Solid state reacted granules
- Reactive gas synthesized materials
- CVD shaped sources & granules

Materion is a global advanced materials company, dedicated to providing solutions that enable our customers' technologies and drive their growth. Our products include precious and non-precious specialty metals, precision optical filters, inorganic chemicals and powders, specialty coatings, specialty-engineered beryllium alloys, beryllium and beryllium composites, and engineered clad and plated metal systems. The Materion business is structured to enhance our ability to provide customers with innovative best total-cost solutions.

ADVANCED MATERIALS GROUP

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MATERION CORPORATION

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