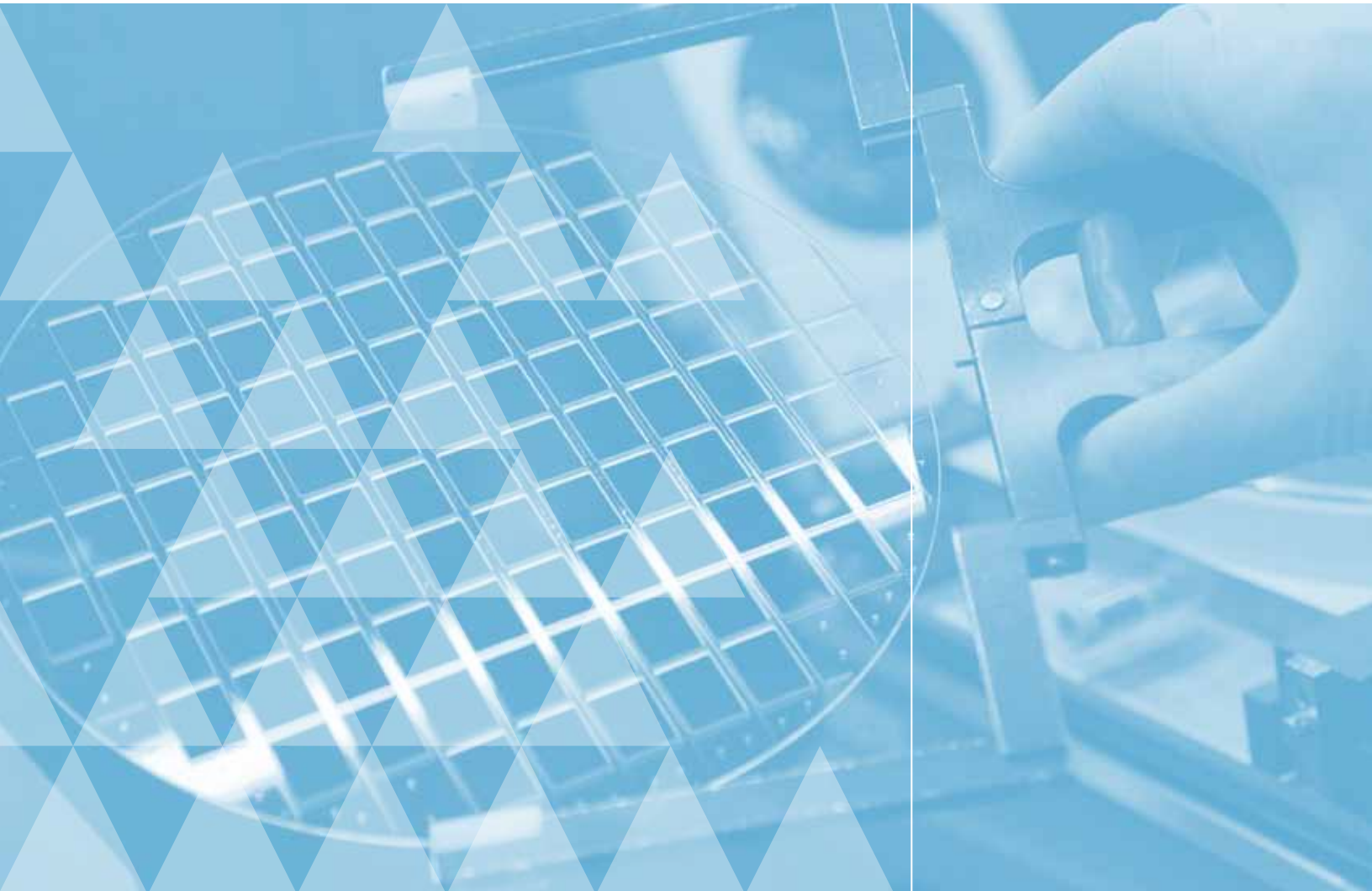




**MATERION**



**BARR PRECISION OPTICS  
& THIN FILM COATINGS**

Low Defect Wafer Level  
Optical Solutions

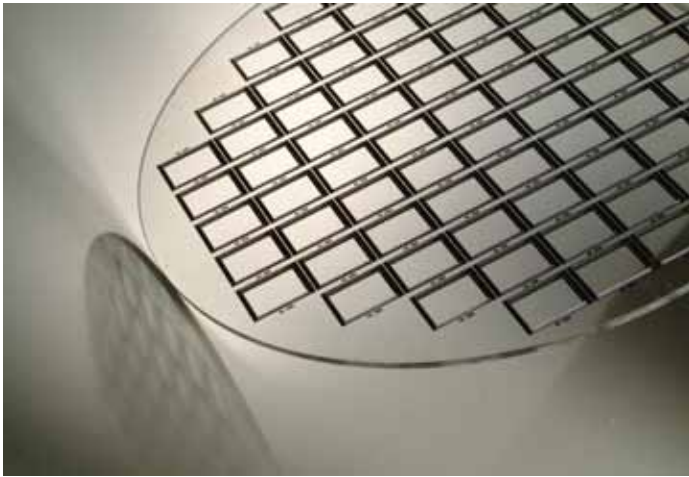


## MATERION BARR PRECISION OPTICS & THIN FILM COATINGS

is a leading manufacturer and supplier of precision optical filters, hybrid circuits, flexible thin films and custom thin film coating services. We offer coating solutions for manufacturers in the defense, commercial, automotive, space, science, astronomy, projection display, imaging, gesture control and thermal imaging markets.

# Low Defect Wafer Level Optical Solutions

Materion Barr Precision Optics & Thin Film Coatings offers low defect wafer level thin film solutions and specializes in developing customized films for optimal performance and high reliability.



**Our advanced technology in the manufacture of wafer level optical solutions offers noteworthy advantages:**

- Fewer handling steps » Lower cost
- Lower edge per area ratio » Lower particle generation » Higher yield
- Dicing after encapsulation » Lower dye contamination » Higher yield
- Enables further miniaturization
- Defects level up to 10µm
- 100µm thickness wafer process
- Excellent film stress control
- Opaque chrome coating (OD>3)
- Micro patterning
- Excellent film stress control
- Lift-off process

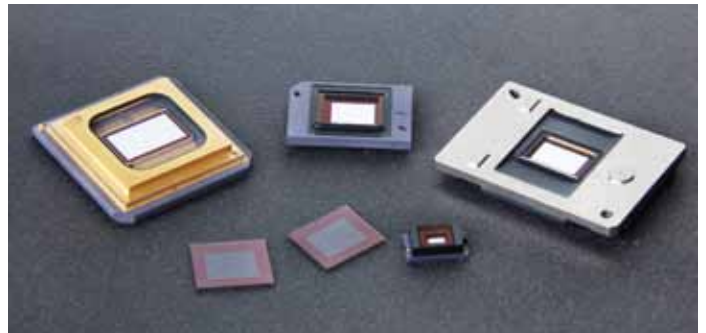
Materion is among the world's premier providers of advanced materials solutions and services. Under the Materion brand, Barr Precision Optics & Thin Film Coatings is aligned to deliver a broader scope of products and services including precious and non-precious specialty metals, precision optical filters, inorganic chemicals and powders, specialty coatings, specialty-engineered beryllium alloys and beryllium composites, and clad and plated metal systems. Our combined global technical expertise allows us to provide our customers with innovative, best cost solutions and become their first choice in a partner.

**Our custom-designed low defect wafer level optical solutions are used in a wide variety of photonic-related applications including:**

- Mirco Mirror Arrays
- Optical MEMS
- Ambient light sensing
- LCoS panel
- Imaging sensor cover lid

**Available Low Defect Wafer Level Optical Solutions:**

- BBAR
- IMITO
- UV\_IR Cut film
- Photonic filter
- Chrome Coating



## MATERION BARR PRECISION OPTICS & THIN FILM COATINGS

2 Lyberty Way  
Westford, MA 01886  
Phone: +1 978.692.7513  
[www.materion.com/barroptics](http://www.materion.com/barroptics)

153 Industrial Way  
Buelton, CA 93427  
Phone: +1 805.688.4949  
[www.materion.com/barroptics](http://www.materion.com/barroptics)

No. 76 Fu Te Dong San Rd.  
WGQ Free Trade Zone, Pudong  
Shanghai 200131, P.R.C.  
Phone: +86 21 5057 4646  
[www.eisoptics.com](http://www.eisoptics.com)

30 Buckingham Gate  
London SW1E 6NN.  
T +44 (0) 7789 078 648  
[www.eisoptics.com](http://www.eisoptics.com)