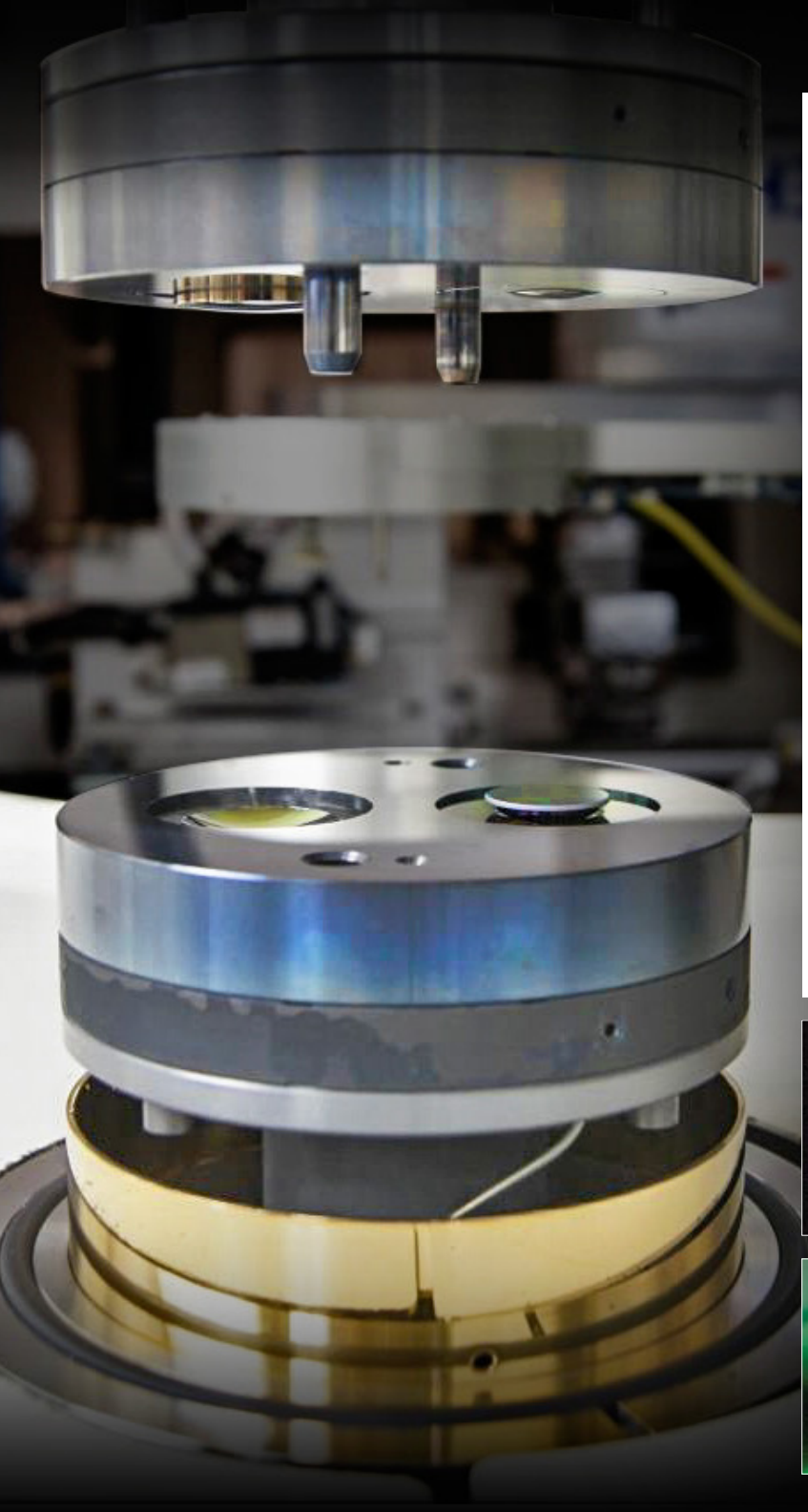
IR MOLDING CAPABILITIES



- Edmund Optics® Partners with an Industry Leader to Advance Infrared Chalcogenide Molded Optics
- Ideally Suited for Volume Defense, Life Sciences, and Industrial Applications
- High Precision Molding of Nontraditional Materials to Support OEM Production at a Competitive Price

Need optics specifically designed for infrared wavelengths? Edmund Optics® has partnered with an industry leader to bring you innovative production technologies in glass molding for your most challenging application needs. By leveraging the individual achievements of both companies in the fabrication of molded lenses from advanced materials, you will have even more choices and availability in stock IR optics to take your project from design to prototype to volume production. Additionally, glass molding can provide a lower cost alternative to other manufacturing methods in volume applications. Need a custom solution? No problem. Contact us today to discuss your specific application requirements.

TARGET APPLICATIONS

- Thermal Imaging
- Thermal Weapon Sight
- Vehicle Vision Enhancement
- Long Range Surveillance
- Thermography

Edmund optics | worldwide

www.edmundoptics.com

Contact Us to Discuss Your Project!

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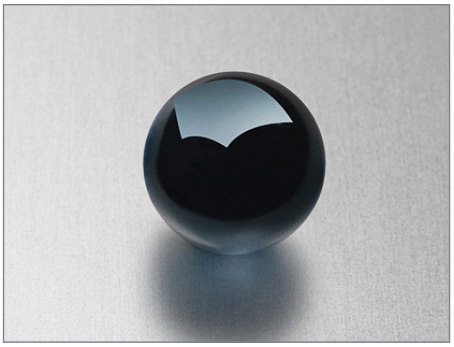
EMAIL: IR-molding@edmundoptics.com

IR MOLDING CAPABILITIES

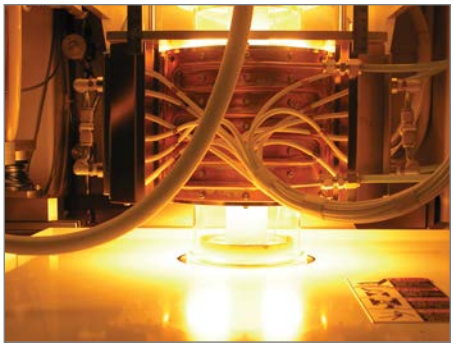
TYPICAL SPECIFICATIONS * Diffractive Kinoform also Available.

Description	Standard Values	Precision Values
Diameter	3 – approx. 30 mm	3 – approx. 30 mm
Tolerance for Lens Diameter < 5 mm	± 0.015 mm	± 0.005 mm
Tolerance for Lens Diameter > 5 mm	± 0.025 mm	± 0.010 mm
Center Thickness Tolerance	± 0.03 mm	± 0.01 mm
Aspheric Figure Error (Fringes at 632.8 nm)	5 fringes	2 fringes
Irregularity (Fringes at 632.8 nm)	2 fringes	1 fringes
Wedge	5 arcmin	2 arcmin
Decenter	± 0.015 mm	± 0.005 mm
Surface Quality (MIL)	60 - 40	20 - 10
Wavelength Range	Wavelength range of material approx. 1-16um	
Anti-Reflection Coating	<1% Avg. Reflection for SWIR, MWIR, or LWIR	
Diamond-Like Carbon Coating	MIL - F - 48616/MIL - C - 48497A	
Material Types	Vitron IG 2-6, Schott IRG 22-26 and similar chalcogenide based glasses	

MANUFACTURING PROCESS



Ball Preform Raw Material



Mold to Diameter

Finished Uncoated Lenses

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