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Optical Mirror Coating

ECI's coatings include **enhanced metal**, **broadband dielectric** and **high performance laser mirrors**.

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ECI's coatings consistently meet or exceed industry standards for environmental durability and laser damage. ECI's coating designs can be optimized for maximum performance for the Ultraviolet, Visible, and Near Infrared spectrums.

Samples and theoretical design curves available upon request!

METAL MIRROR COATING

ECI deposits protected and enhanced metal optical coatings for military, medical, fiberoptic, industrial and scientific applications. Designs include protected and enhanced Gold, Aluminum and Silver. Coatings are designed for first or second surface reflection, angle of incidence, incident medium and substrate material. Coatings are optimized for maximum performance in the UV to **Infrared** regions. Thin Film Coating Designs are available for deposition onto many optical materials including: **plastics, molded polymer optics, glass and metals, fiber optic devices**, and **Infrared optical materials**.

Standard and **custom coatings** are available including customer specified metal layer thicknesses. *ECI's Metal Optical coatings meet the environmental and durability requirements of MIL-M-13508C.*

DIELECTRIC MIRROR COATING

Evaporated Coatings, Inc. manufactures highly reflective low loss broadband dielectric optical coatings with greater than 99.5% reflection. Designs can be optimized for use from 248nm – 2500nm for broad band wavelengths or multi band applications. Applications include military, medical, fiberoptic and scientific research.

ECI's custom dielectric optical coatings are optimized to ensure maximum performance for your systems. Specify your particular wavelength range, angle of incidence, substrate material, incident medium and polarization state. If you are not sure how to specify your coating requirements, our design team will work with you to produce the optimum dielectric optical coating for your application.

Designs are available for deposition onto various types of optical materials including: **plastics, molded polymer optics, glass substrates, fiber optic devices**, and **crystals and semiconductor materials**.

ECI will also deposit your proprietary thin film optical design.

ECI's Dielectric Optical coatings meet the environmental and durability requirements of MIL-C-48497; Dielectric optical coatings on glass substrates meet the environmental and durability requirements of MIL-F-48616.

LASER DIELECTRIC MIRROR COATING

Evaporated Coatings, Inc. manufactures highly reflective low loss dielectric laser optical coatings with up to 99.95% reflection. Laser Mirror Coatings can be optimized for use from 248nm – 2500nm for laser line wavelengths, or multi band applications. Designs are available for deposition onto various types of optical materials including: glass substrates, fiber optic devices, and crystals and semiconductor materials.

ECI’s custom **laser dielectric optical coatings** are utilized in high power applications that require coatings with significant laser damage thresholds. ECI’s engineers will design the optimum coating for your high power laser application.

ECI’s Laser Dielectric Mirror coatings meet the environmental and durability requirements of MIL-C-48497; Laser Dielectric Mirror coatings on glass substrates meet the environmental and durability requirements of MIL-F-48616.

Contact our design team to discuss your specific Mirror Coatings application!



REQUEST FOR QUOTE

ECI will respond to your RFQ online form within 24 hours.

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