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50mm Dia., Rhodium Coated First Surface Mirror



Rhodium Coated First Surface Mirrors

Stock #15-491 **14 In Stock**

⊖ 1 ⊕ \$95⁰⁰

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| Qty 1-5 | \$95.90 each |
| Qty 6-49 | \$77.00 each |
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Product Downloads

General

Flat Mirror **Type:**

Physical & Mechanical Properties

50.00 ±0.25 **Diameter (mm):**

3.00 ±0.20 **Thickness (mm):**

Bevel:

Protective as needed

Dimensional Tolerance (mm):

±0.25

Edges:

Ground

Optical Properties

Coating Type:

Metal

Coating:

Rhodium (400-10000nm)

Surface Flatness (P-V):

4 - 6λ

Wavelength Range (nm):

400 - 10000

Substrate: □

Float Glass

Coating Specification:

R_{avg} >70% @ 400 - 700nm
R_{avg} >90% @ 2000 - 10,000nm

Surface Quality:

80-50

Environmental & Durability Factors

Coating Abrasion:

Severe, per MIL-C-675C Paragraph 3.8.4.1

Coating Adhesion:

MIL-PRF-13830B, App B Para. 4.4.6

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Corrosion and Extreme Abrasion Resistant Rhodium Coating
- High Reflectivity in the VS and IR
- Ideal for Orthodontic Applications

Rhodium Coated First Surface Mirrors provide high reflectivity and are ideal for orthodontic applications, especially in intra-oral photography. These mirrors feature a rhodium coating, which is an element notably resistant to corrosion and aggressive chemicals and passes severe abrasion tests as per MIL-C-675C. Rhodium Coated First Surface Mirrors utilize a float glass substrate which enables easy customization and provides excellent cost to performance ratio. They are available in standard metric sizes, with either circular or square geometries.

Compatible Mounts