

## 50mm Dia., Rhodium Coated First Surface Mirror



Rhodium Coated First Surface Mirrors

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

-

1

+

C\$95<sup>90</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$95.90 each                 |
| Qty 6-49       | C\$77.00 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Diameter (mm):

50.00 ±0.25

Dimensional Tolerance (mm):

±0.25

Bevel:

|                                                                              |                             |
|------------------------------------------------------------------------------|-----------------------------|
| Protective as needed                                                         |                             |
| Ground                                                                       | Edges:                      |
|                                                                              |                             |
| 3.00 ±0.20                                                                   | Thickness (mm):             |
|                                                                              |                             |
| Optical Properties                                                           |                             |
| 4 - 6λ                                                                       | Surface Flatness (P-V):     |
| Float Glass                                                                  | Substrate: □                |
|                                                                              |                             |
| 80-50                                                                        | Surface Quality:            |
| R <sub>avg</sub> >70% @400 - 700nm<br>R <sub>avg</sub> >90% @2000 - 10,000nm | Coating Specification:      |
| Rhodium (400-10000nm)                                                        | Coating:                    |
| Metal                                                                        | Coating Type:               |
|                                                                              |                             |
| 400 - 10000                                                                  | Wavelength Range (nm):      |
|                                                                              |                             |
| Environmental & Durability Factors                                           |                             |
| Severe, per MIL-C-675C Paragraph 3.8.4.1                                     | Coating Abrasion:           |
| MIL-PRF-13830B, App B Para. 4.4.6                                            | Coating Adhesion:           |
|                                                                              |                             |
| Regulatory Compliance                                                        |                             |
| Compliant                                                                    | RoHS 2015:                  |
| View                                                                         | Certificate of Conformance: |
|                                                                              |                             |
| Compliant                                                                    | Reach 247:                  |
|                                                                              |                             |

## 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.

## Custom

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](#).

## Compatible Mounts