

**TECHSPEC® 35mm Square Enhanced Aluminum Coated,  $\lambda/10$**   
**Mirror**  
#84-414



해당 제품은 가시광 및 적외선 스펙트럼 영역에서 빔을 조정하고 반사하는 까다로운 어플리케이션에 사용하는 데 적합합니다. 정밀 용융 실리카 기판으로 제조되며, 낮은 열팽창 계수가 특징이고, 내구성과 내마모성이 우수합니다.

참고: 표면 평탄도는 코팅 전에 측정됩니다.

## General

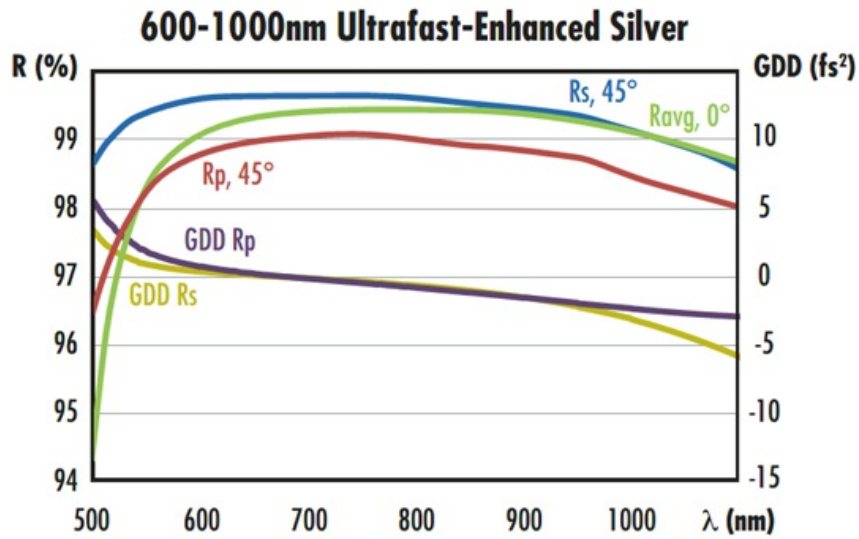
Type: Flat Mirror

## Physical & Mechanical Properties

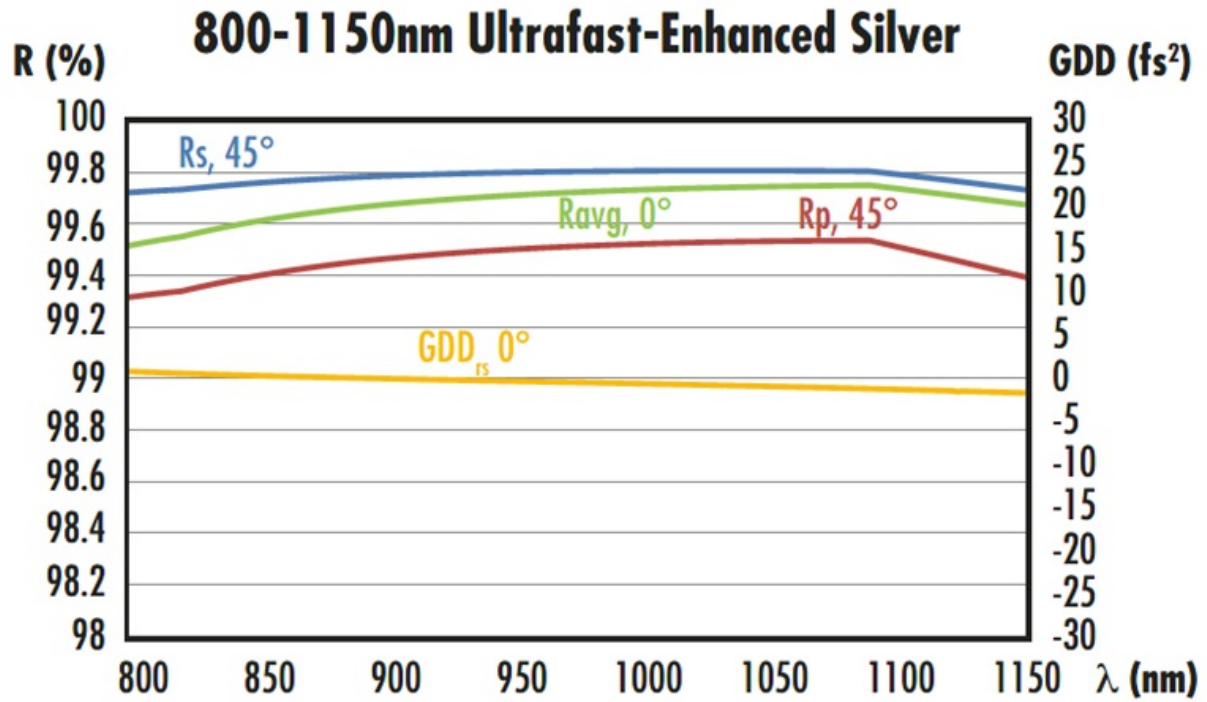
Back Surface:	Commercial Polish
Dimensions (mm):	35.0 x 35.0
Dimensional Tolerance (mm):	+0.0/-0.20
Bevel:	Protective bevel as needed
Clear Aperture (%):	90
Edges:	Ground
Parallelism (arcsec):	30
Thickness (mm):	5.00 ±0.20
Length (mm):	35.00
Width (mm):	35.00

## Optical Properties

Surface Flatness (P-V):	$\lambda/10$
Substrate:	<a href="#">Fused Silica</a> (Corning 7980)
Surface Quality:	20-10
Coating Specification:	$R_{\text{avg}} > 95\%$ @ 450 - 650nm
Coating:	Enhanced Aluminum (450-650nm)
Coating Type:	Metal
Wavelength Range (μm):	0.45 - 0.65
Wavelength Range (nm):	450 - 650
Damage Threshold, Reference:	0.2 J/cm <sup>2</sup> @ 532nm, 10ns



600-1000nm Ultrafast-Enhanced Silver



800-1150nm Ultrafast-Enhanced Silver



June 22, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
84-414	35mm Square Enhanced Aluminum Coated, $\lambda/10$ Mirror

This item is EU RoHS (2015/863/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance  
June 22, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | [Compliance@edmundoptics.com](mailto:Compliance@edmundoptics.com)

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재고 번호	제품설명
84-414	35mm Square Enhanced Aluminum Coated, $\lambda/10$ Mirror

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



June 22, 2025

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84-414	35mm Square Enhanced Aluminum Coated, $\lambda/10$ Mirror

This item does not contain any of the substances listed on the Reach SVHC list as of 21 January 2025 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.

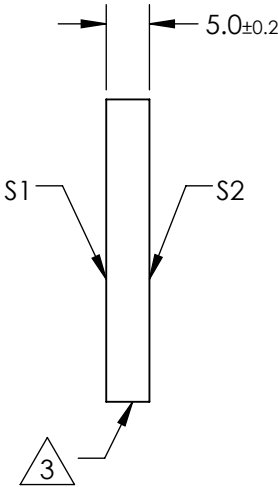
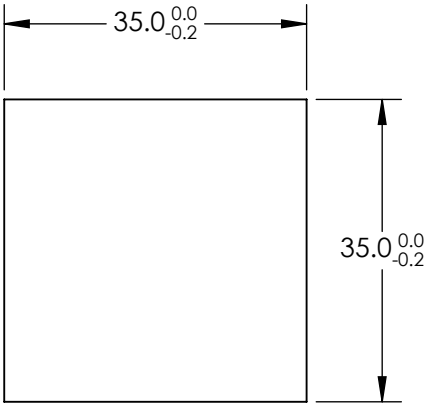


Jay Budd, Director of Corporate Compliance  
June 22, 2025

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NOTES:

1. SUBSTRATE MATERIAL:  
Fused Silica
2. COATING (APPLY ACROSS CLEAR APERTURE)  
  
S1: Enhanced Aluminum  
R(avg) >95% @ 450 - 650nm  
  
S2: NONE
3. FINE GROUND SURFACE
4. PARALLELISM: 30 ARCSEC
5. RoHS COMPLIANT



**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

REV. A	S1	S2	<div><div><div>EO<sup>®</sup></div><div>Edmund Optics<sup>®</sup></div></div><div><div>TITLE</div><div>35mm Square Enhanced Aluminum Coated, λ/10 Mirror</div></div><div><div>DWG NO</div><div>84414</div></div><div><div>SHEET</div><div>1 OF 1</div></div></div>			
SHAPE	PLANO	PLANO				
SURFACE QUALITY	20-10	N/A	<div>THIRD ANGLE PROJECTION</div> <div><div>ALL DIMS IN</div><div>mm</div></div>			
SURFACE FLATNESS	λ/10	COMMERICAL POLISH				
CLEAR APERTURE	90%	N/A				
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED				