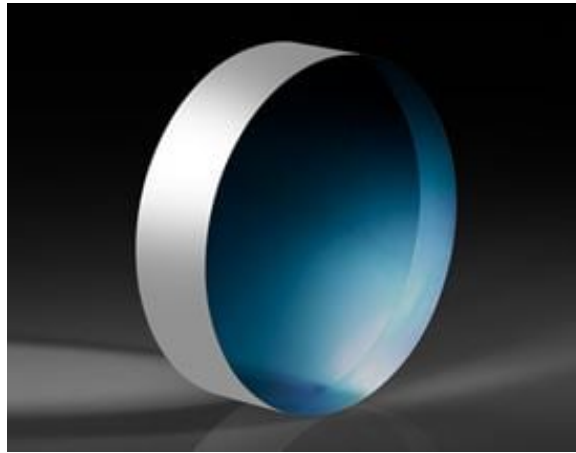


TECHSPEC® 30mm Dia. 3mm Thick NIR II Coated, 1λ Fused Silica Window

#39-301



TECHSPEC® 1λ Fused Silica Windows는 UV급 합성 용융 실리카를 이용해 정밀 생산됩니다. 우수한 투과율에 더해 이 광학 윈도우에 사용되는 합성 용융 실리카는 보다 높은 열적 특성, 높은 순도, 그리고 주변 환경에 대한 탁월한 내구성을 갖고 있어 뛰어난 성능을 필요로 하는 경우에 적합합니다.

General

Type: Protective Window

Physical & Mechanical Properties

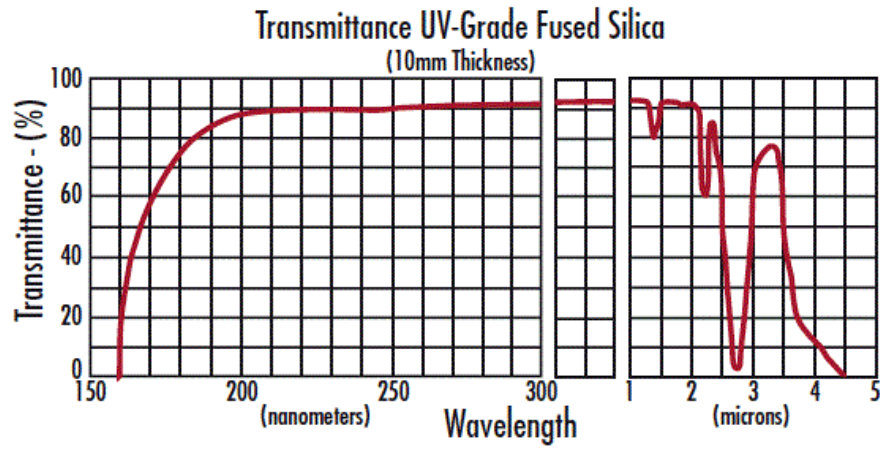
| | |
|---------------------------------------|----------------------|
| Bevel: | Protective as needed |
| Clear Aperture (%): | 90 |
| Clear Aperture CA (mm): | 27.00 |
| Diameter (mm): | 30.00 +0.00/-0.20 |
| Thickness (mm): | 3.00 ±0.38 |
| Edges: | Fine Ground |
| Knoop Hardness (kg/mm ²): | 522 |
| Parallelism (arcmin): | <5 |
| Poisson's Ratio: | 0.16 |
| Young's Modulus (GPa): | 73 |

Optical Properties

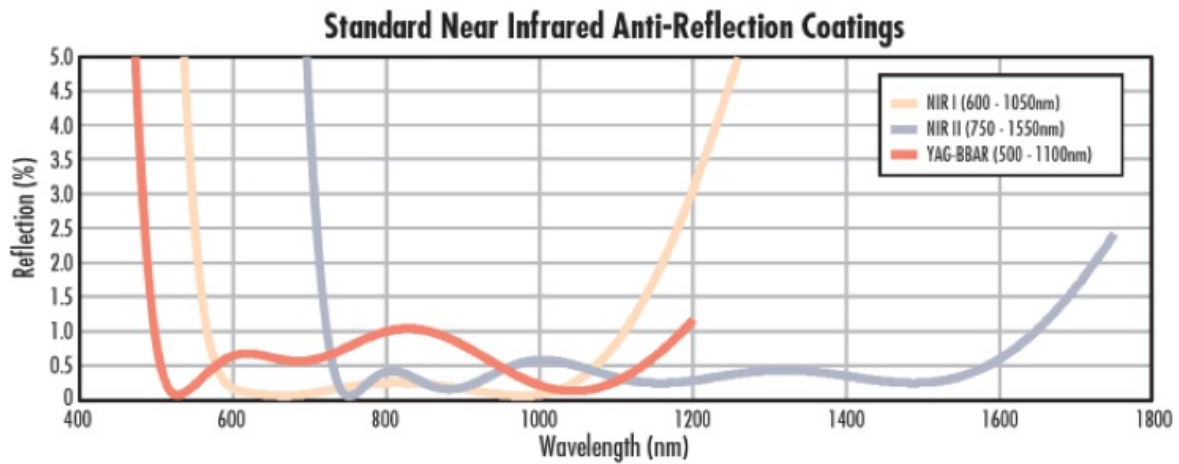
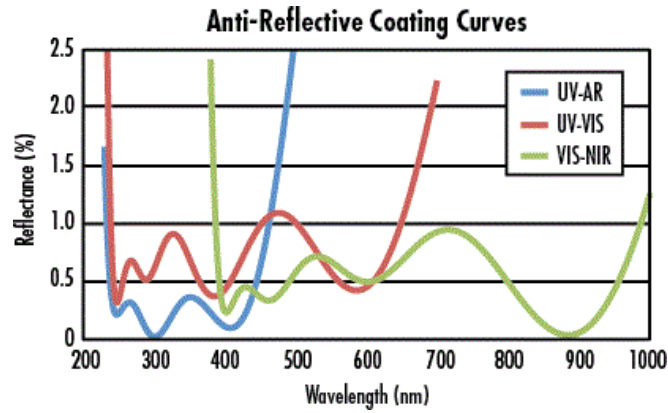
| | |
|--------------------------------|---|
| Abbe Number (v_d): | 67.8 |
| Coating: | NIR II (750-1550nm) $R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$ |
| Coating Specification: | |
| Index of Refraction (n_d): | 1.458 |
| Substrate: | Fused Silica (Corning 7980) |
| Surface Flatness (P-V): | 1λ |
| Surface Quality: | 60-40 |
| Wavelength Range (nm): | 750 - 1550 |
| Damage Threshold, By Design: | 8 J/cm ² @ 1064nm, 10ns |

Material Properties

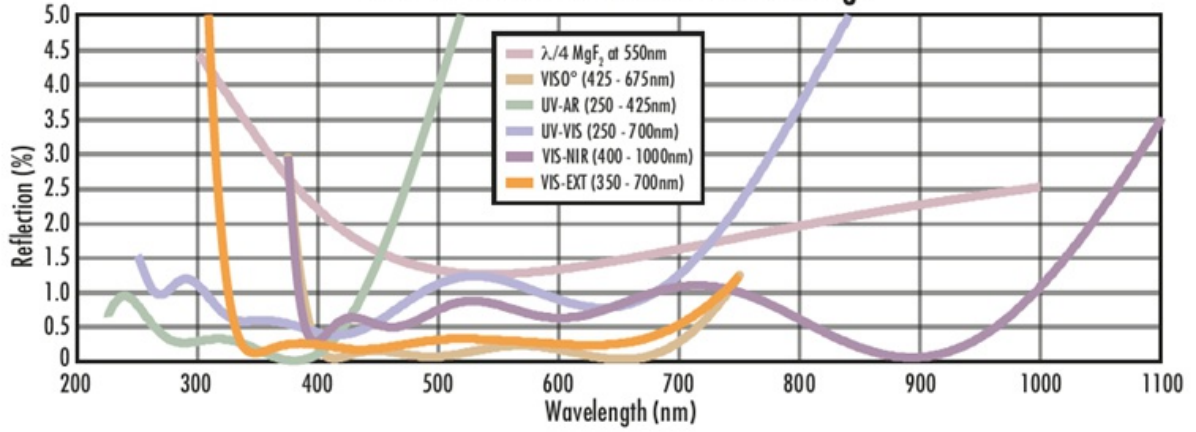
| | |
|--|---|
| Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C): | 0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C) |
| Density (g/cm ³): | 2.20 |



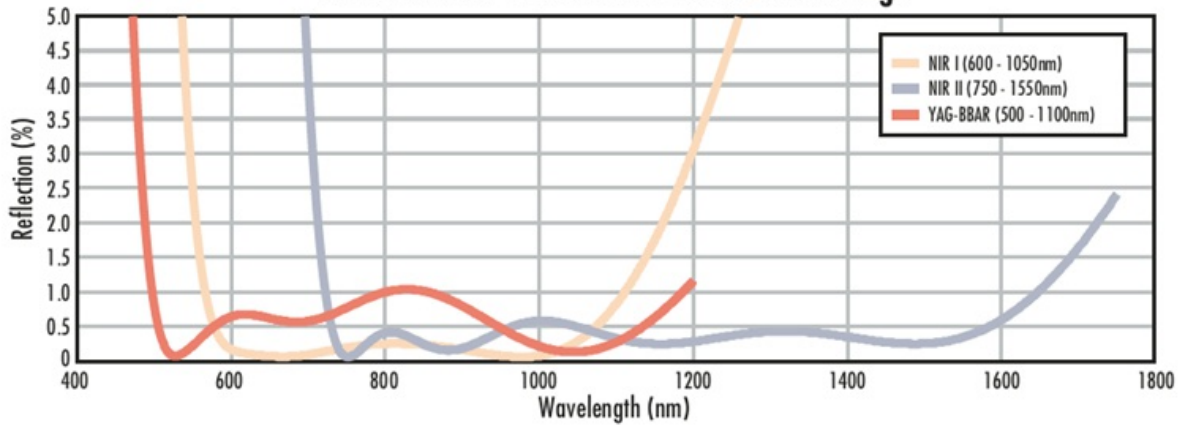
UV FS Transmission Curve



Standard Visible Anti-Reflection Coatings



Standard Near Infrared Anti-Reflection Coatings





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 |
|--------|---|
| 39-301 | 30mm Dia. 3mm Thick NIR II Coated, 1λ Fused Silica Window |

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



June 22, 2025

재고 번호

39-301

제품설명

30mm Dia. 3mm Thick NIR II Coated, 1λ Fused Silica Window

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

To Whom It May Concern,

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

| 재고 번호 | 제품설명 |
|--------|---|
| 39-301 | 30mm Dia. 3mm Thick NIR II Coated, 1λ Fused Silica Window |

This item does not contain any of the substances listed on the Reach SVHC list as of 14 June 2023 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.



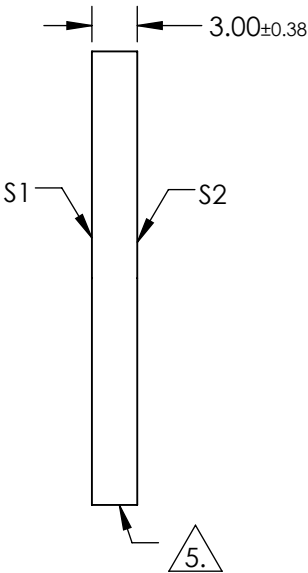
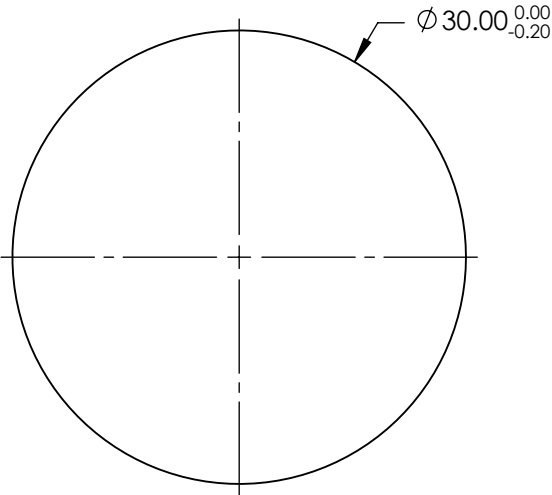
Jay Budd, Director of Corporate Compliance
June 22, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com

NOTES:

- 1. SUBSTRATE: FUSED SILICA
- 2. RoHS: COMPLIANT
- 3. SURFACE S2 TO BE PARALLEL TO SURFACE S1 TO WITHIN < 5 ARCMIN
- 4. COATING (APPLY ACROSS COATING APERTURE)
S1 & S2: R(ABS) ≤1.5% FROM 750 - 800nm
R(ABS) ≤1.0% FROM 800 - 1550nm
R(AVG) ≤0.7% FROM 750 - 1550nm

5. FINE GRIND SURFACE




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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

| | S1 | S2 |
|------------------|----------------------|----------------------|
| SHAPE | PLANO | PLANO |
| SURFACE ACCURACY | 1λ | 1λ |
| SURFACE QUALITY | 60-40 | 60-40 |
| CLEAR APERTURE | Ø27.00 | Ø27.00 |
| BEVEL | PROTECTIVE AS NEEDED | PROTECTIVE AS NEEDED |

THIRD ANGLE
PROJECTION

ALL DIMS IN mm

 **Edmund Optics®**

| | | | |
|--------|---|--------------|--|
| TITLE | 30mm DIA. NIR II COATED, 1λ FUSED SILICA WINDOW | | |
| DWG NO | 39301 | SHEET 1 OF 1 | |