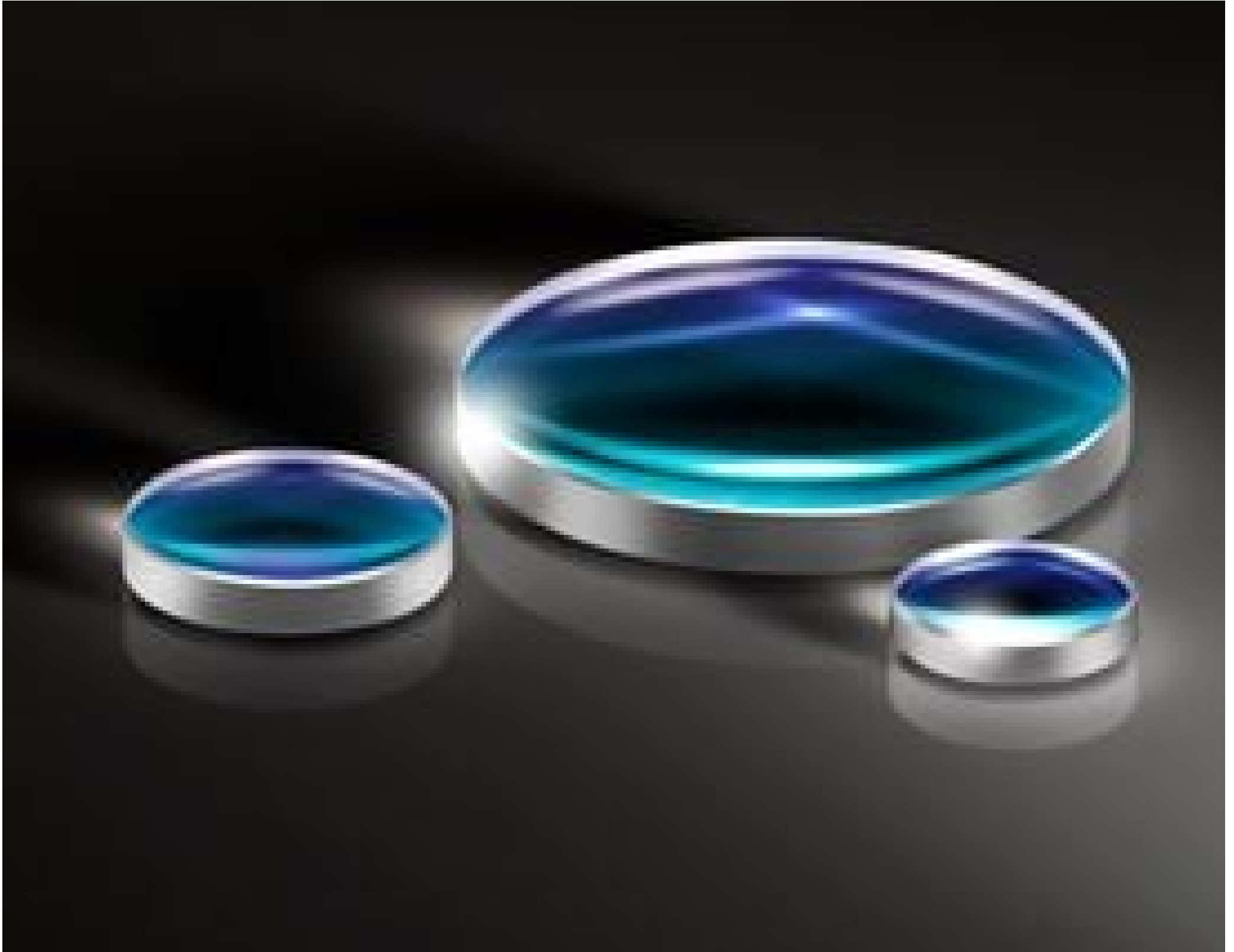


TECHSPEC®

Doppelkonvexe Linse aus UV-Quarzglas, 12 mm D. x 24 mm eff. BW, NIR-I-beschichtet



UV Fused Silica Double-Convex (DCX) Lenses



Produkt **#22-166** **4 In Stock**

[Andere Beschichtungen](#)

- 1 + €145²³

+ WARENKORB

Mengenrabatte	
Stk. 1-5	€145,23 stückpreis
Stk. 6-25	€116,39 stückpreis
Stk. 26-49	€109,18 stückpreis
Need More?	Angebotsanfrage

! Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

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SPEZIFIKATIONEN

Produktdetails

Double-Convex Lens **Typ:**

Physikalische und mechanische Eigenschaften

12.00 +0.0/-0.025 **Durchmesser (mm):**

<1 **Zentrierung (Bogenminuten):**

Protective as needed **Fase:**

3.10 ±0.05 **Mittendicke CT (mm):**

1.39 **Randdicke ET (mm):**

11.00 **Freie Apertur CA (mm):**

Optische Eigenschaften

22.92 **Hintere Brennweite BFL (mm):**

24.00 **Effektive Brennweite EFL (mm):**

NIR I (600-1050nm) **Beschichtung:**

$R_{avg} \leq 0.5\%$ @ 600 - 1050nm **Beschichtungsspezifikation:**

Fused Silica (Corning 7980) **Substrat:**

40-20 **Oberflächenqualität:**

1.5λ **Power (P-V) @ 632,8 nm:**

λ/4 **Unregelmäßigkeit (P-V) @ 632,8 nm:**

21.51 **Radius $R_1=R_2$ (mm):**

2.00 **Blende:**

587.6 **Designwellenlänge Brennweite (nm):**

±1 **Toleranz Brennweite (%):**

0.25 **Numerische Apertur NA:**

600 - 1050 **Wellenlängenbereich (nm):**

7 J/cm² @ 1064nm, 10ns **Zerstörschwelle, Referenz:**

Konformität mit Standards

Konform **RoHS 2015:**

Anzeigen **Konformitätszertifikat:**

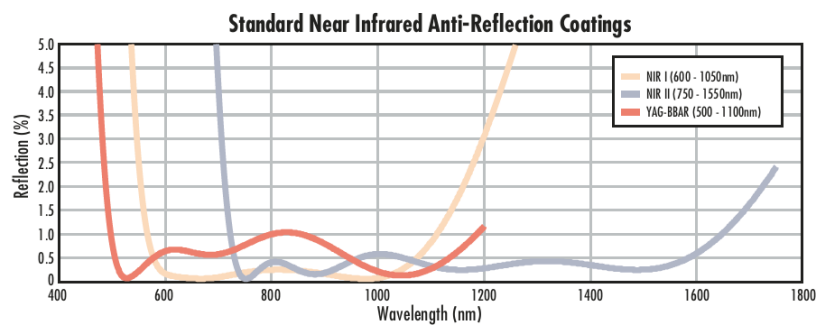
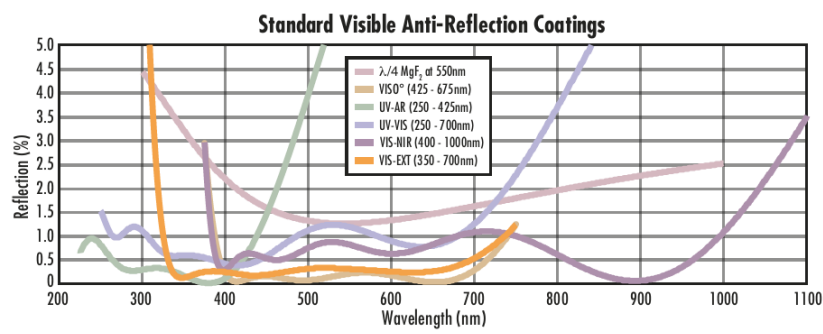
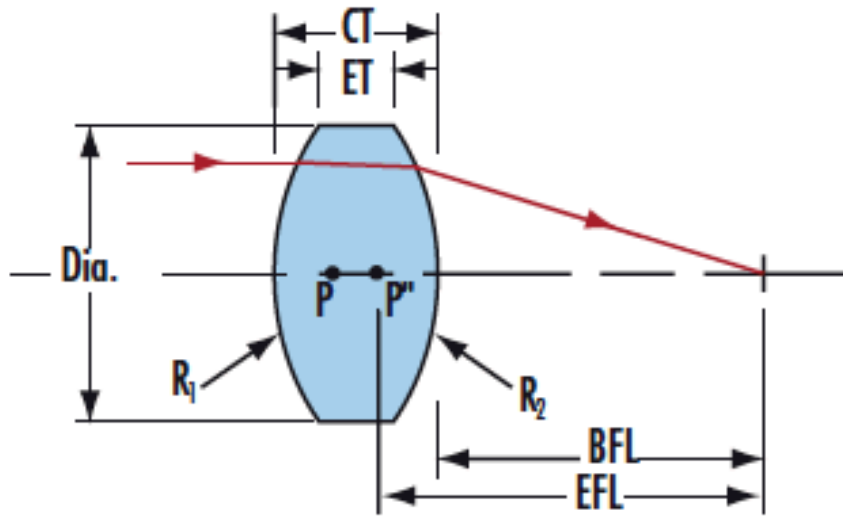
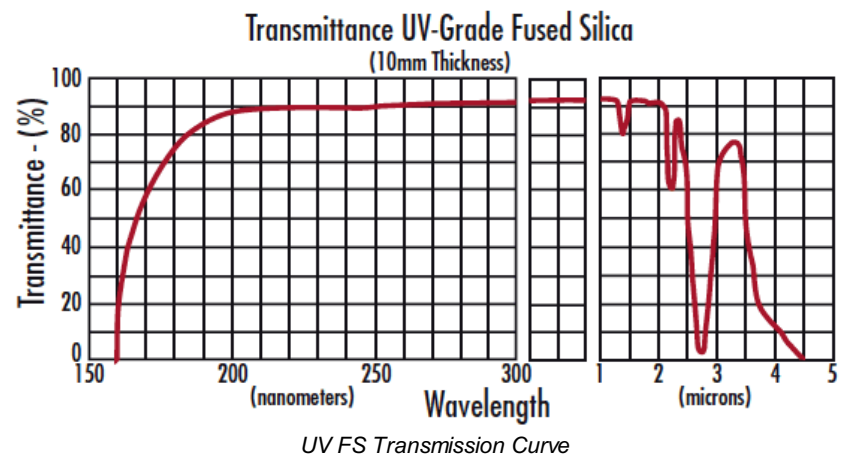
Konform **Reach 235:**

PRODUKTDDETAILS

- Ideal für die Bildgebung
- Minimieren Aberrationen wie sphärische Aberration oder Koma
- Präzises Substrat aus Quarzglas

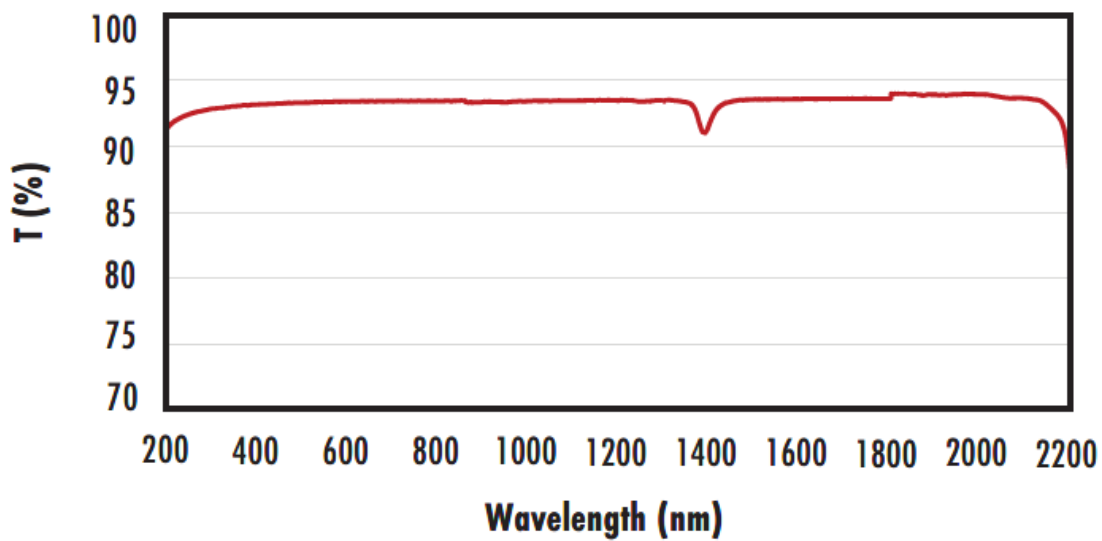
Die TECHSPEC® doppelkonvexen Linsen (DCX-Linsen) aus UV-Quarzglas, auch bikonvexe Linsen genannt, haben zwei positive, symmetrische Oberflächen mit gleichem Krümmungsradius auf beiden Seiten. Die Linsen werden generell für Bildgebungen mit endlichem Abstand und Konjugiertenverhältnis (Verhältnis zwischen Objekt- und Bildweite) zwischen 0,2 und 5 empfohlen. Bei einem Konjugiertenverhältnis von 1 sind Aberrationen wie sphärische Aberration, chromatische Aberration, Koma und Verzeichnung aufgrund des symmetrischen Linsendesigns minimiert oder sogar ganz eliminiert.

TECHNISCHE INFORMATIONEN



FUSED SILICA

Uncoated Fused Silica Typical Transmission



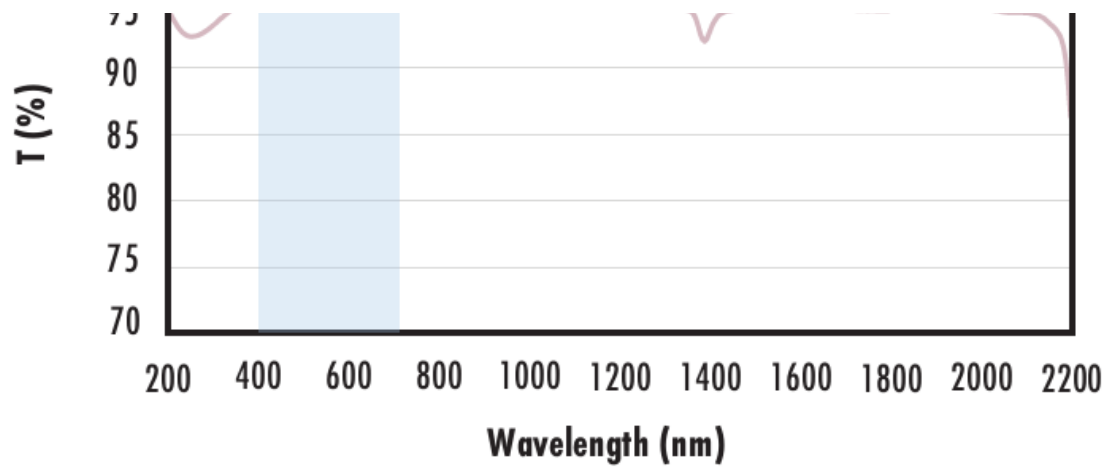
Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

[Click Here to Download Data](#)

Fused Silica with MgF₂ Coating Typical Transmission

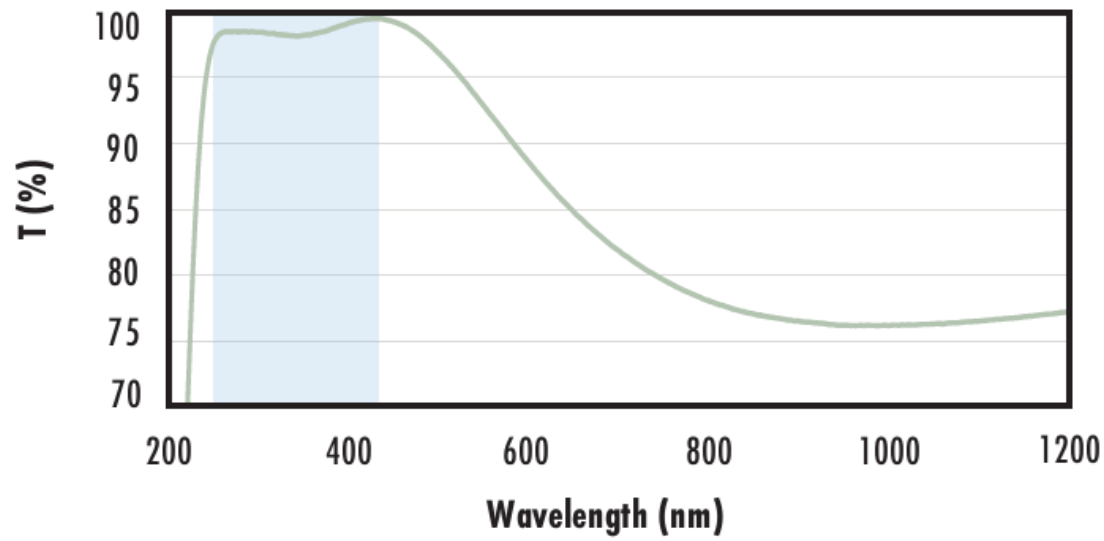


Typical transmission of a 3mm thick fused silica window with



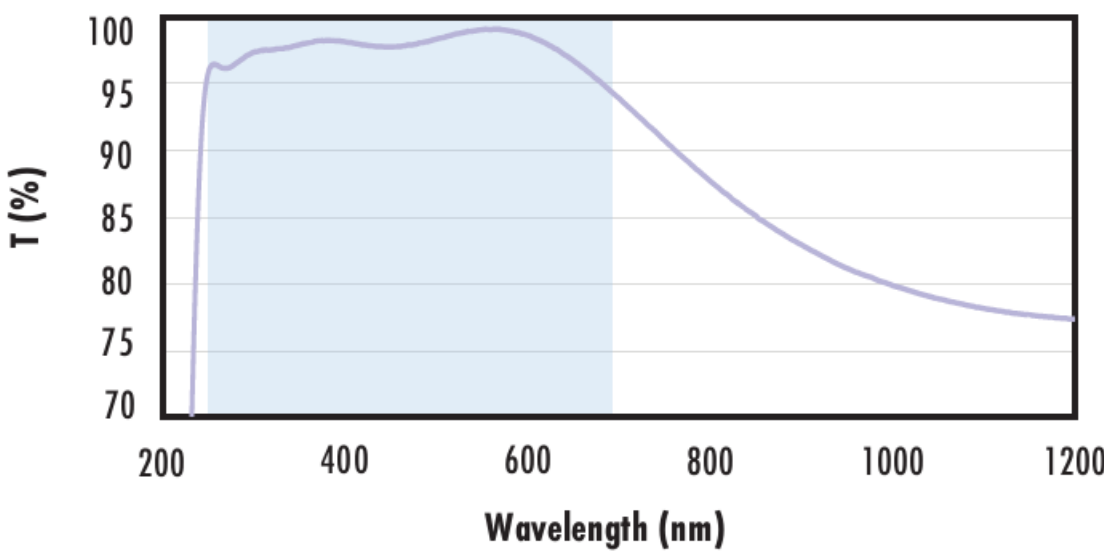
MgF2 (400-700nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7)
 Data outside this range is not guaranteed and is for reference only.
[Click Here to Download Data](#)

**Fused Silica with UV-AR Coating
 Typical Transmission**



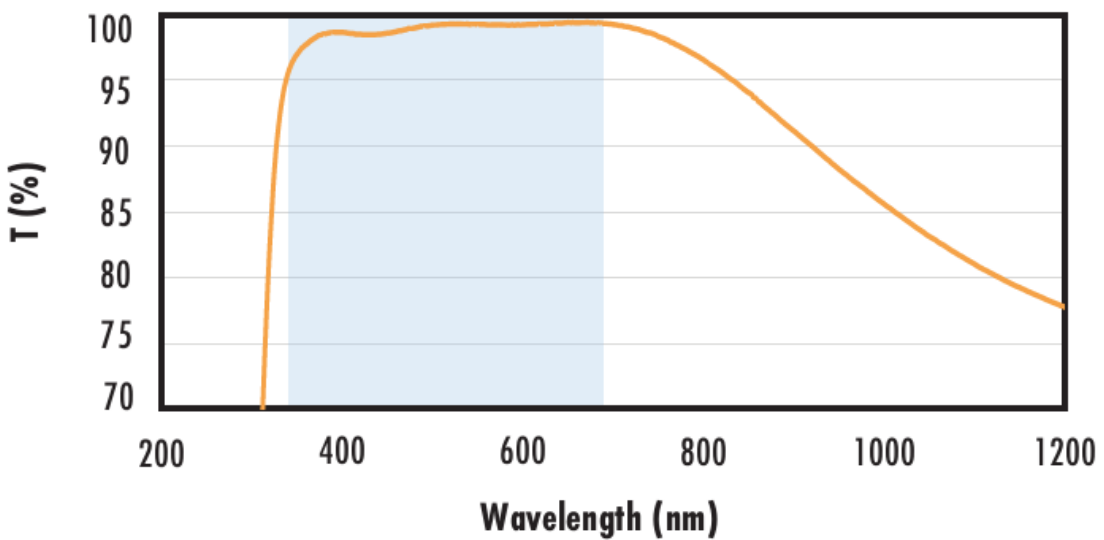
Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$
 $R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$
 $R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$
 Data outside this range is not guaranteed and is for reference only.
[Click Here to Download Data](#)

**Fused Silica with UV-VIS Coating
 Typical Transmission**



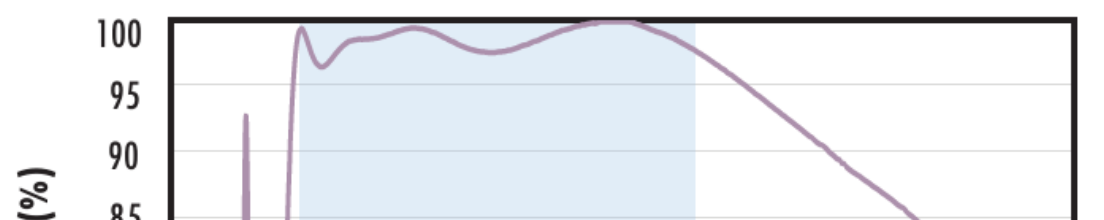
Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$
 $R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$
 Data outside this range is not guaranteed and is for reference only.
[Click Here to Download Data](#)

**Fused Silica with VIS-EXT Coating
 Typical Transmission**

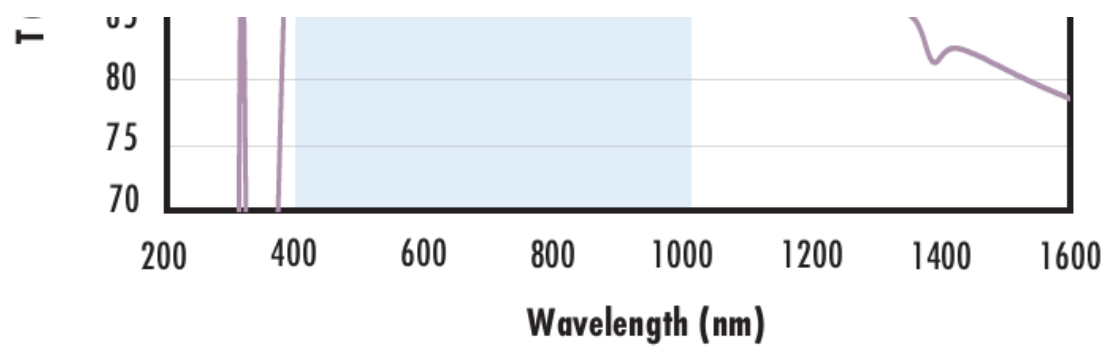


Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$
 Data outside this range is not guaranteed and is for reference only.
[Click Here to Download Data](#)

**Fused Silica with VIS-NIR Coating
 Typical Transmission**



Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 0.25\% @ 880\text{nm}$
 $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$

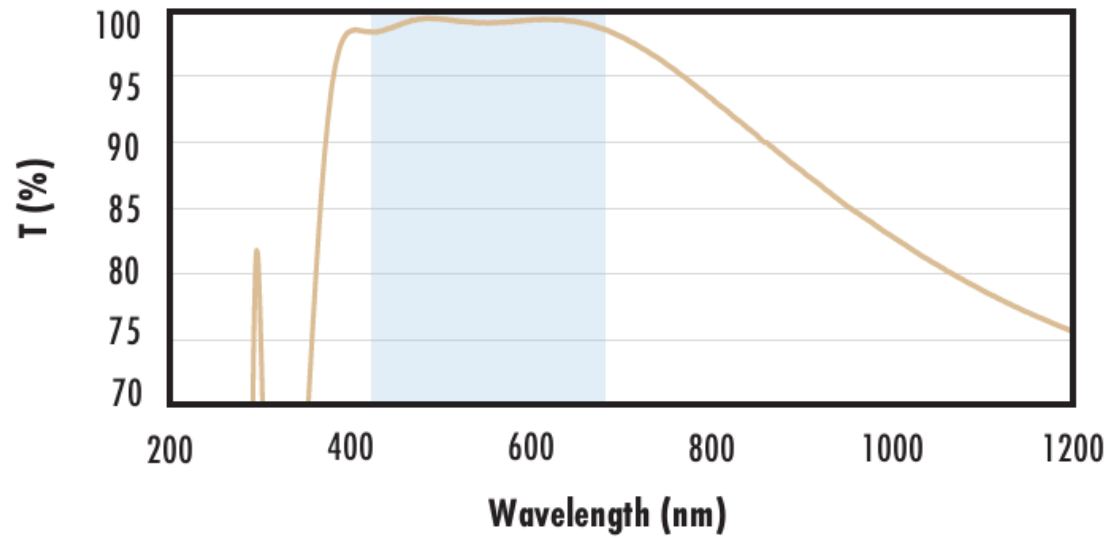


$R_{avg} \leq 1.25\% @ 890 - 1000nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

Fused Silica with VIS 0° Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

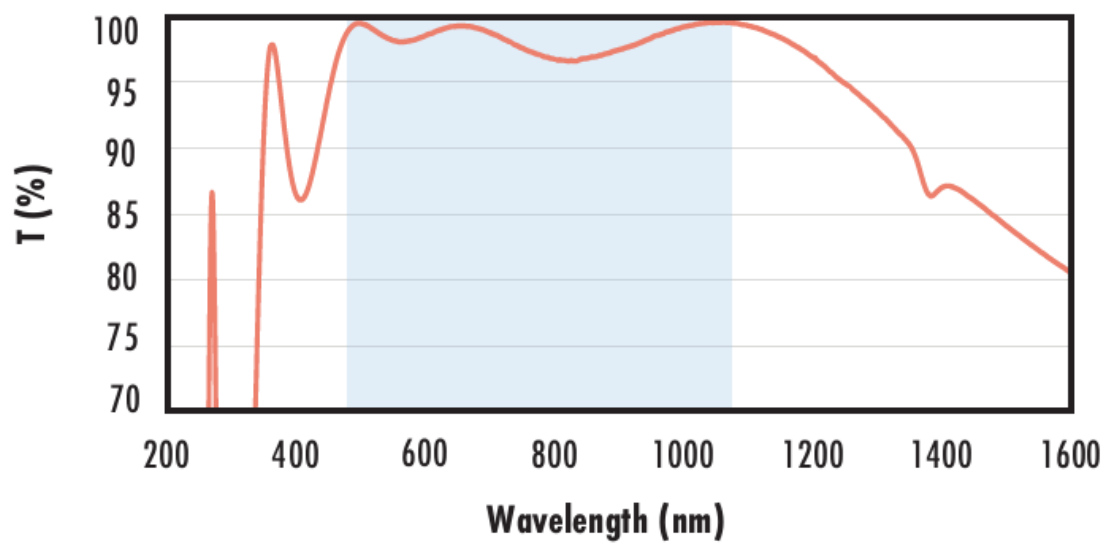
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.4\% @ 425 - 675nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

Fused Silica with YAG-BBAR Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 0.25\% @ 532nm$

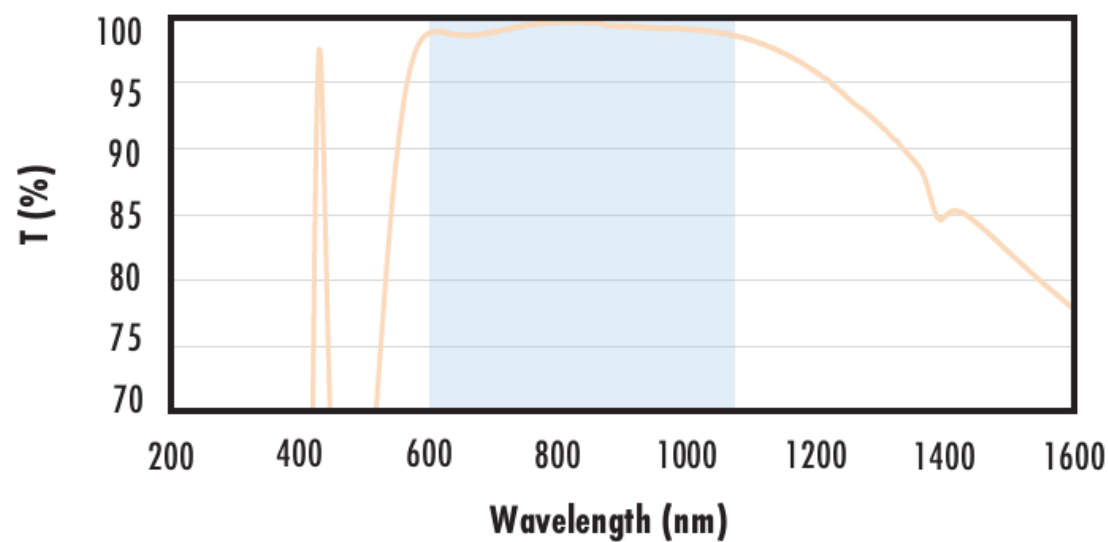
$R_{abs} \leq 0.25\% @ 1064nm$

$R_{avg} \leq 1.0\% @ 500 - 1100nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

Fused Silica with NIR I Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

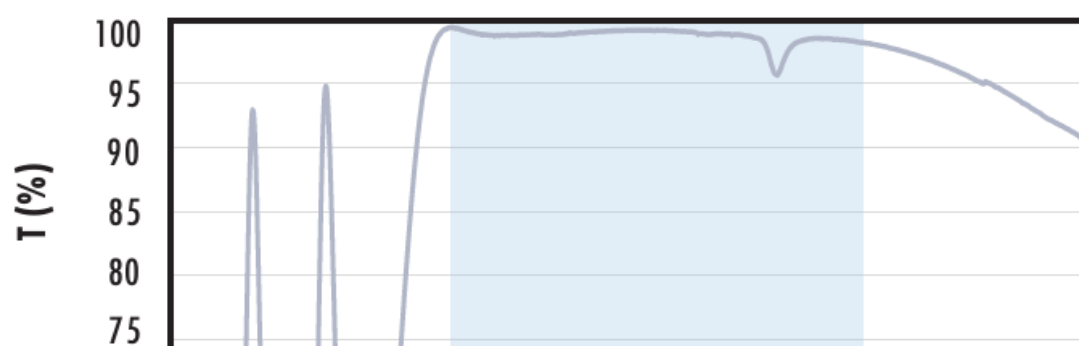
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% @ 600 - 1050nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

Fused Silica with NIR II Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

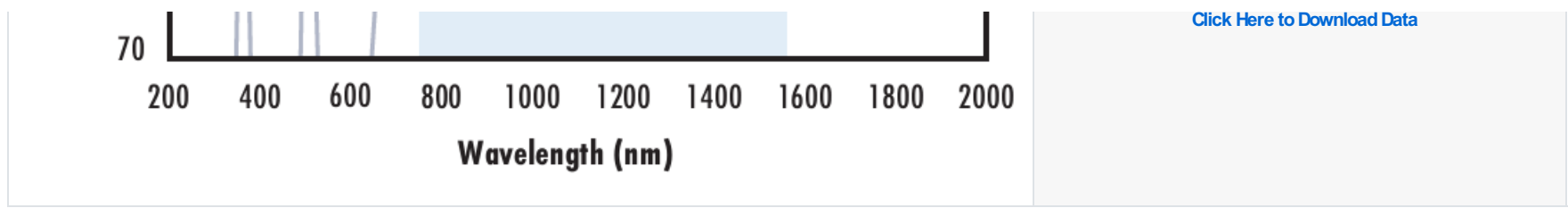
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.5\% @ 750 - 800nm$

$R_{abs} \leq 1.0\% @ 800 - 1550nm$

$R_{avg} \leq 0.7\% @ 750 - 1550nm$

Data outside this range is not guaranteed and is for reference only.



KUNDENSPEZIFISCHE PRODUKTE

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungs-komponenten an, speziell hergestellt für Ihre Anwendungsanforderungen. Wir ermöglichen flexible Lösungen für Ihre Bedürfnisse – von der Prototypenphase bis zur Serienfertigung. Unsere erfahrenen IngenieurInnen freuen sich auf die Zusammenarbeit und unterstützen Sie bei jedem Projektschritt.

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