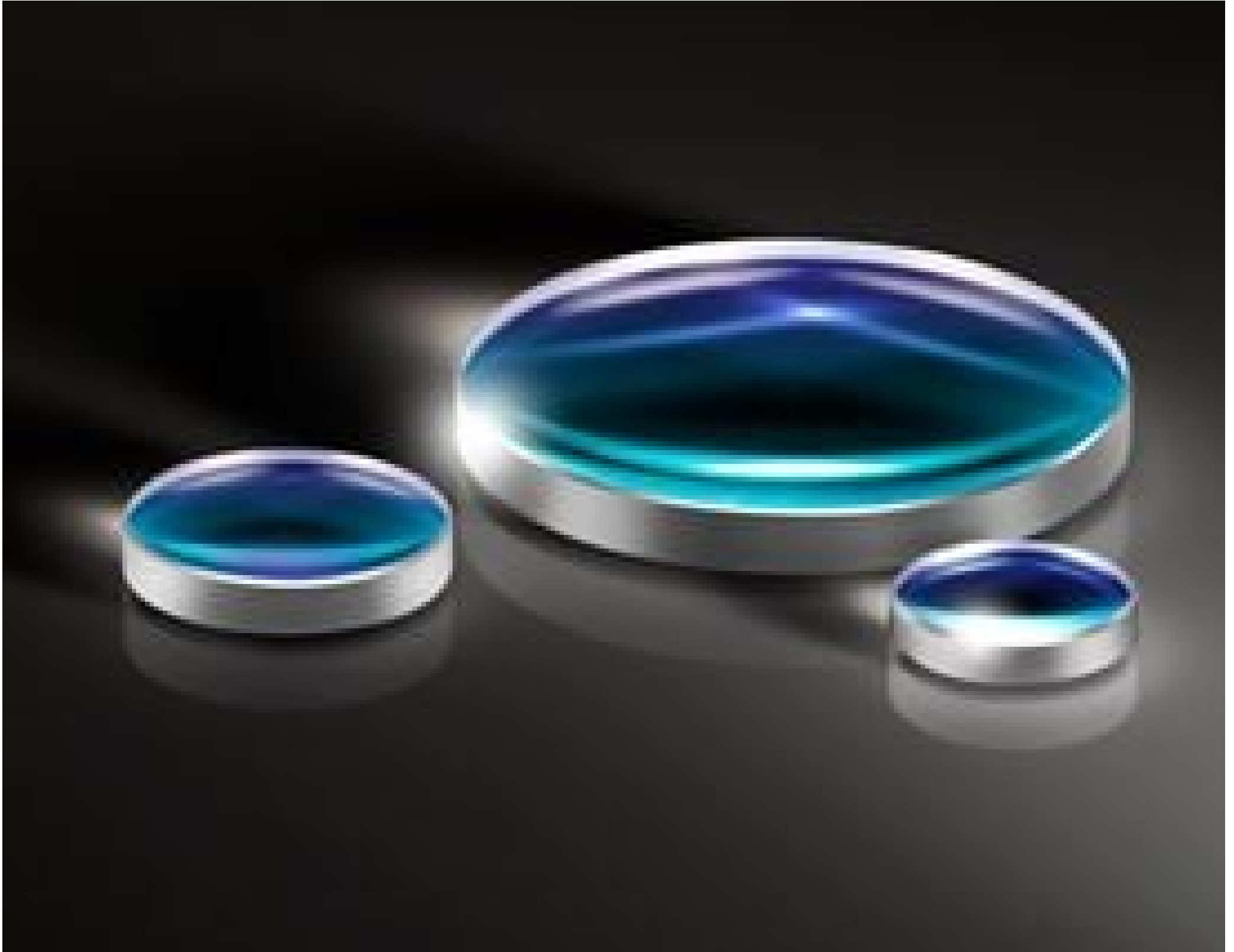


**TECHSPEC®**

## Doppelkonvexe Linse aus UV-Quarzglas, 25 mm D. x 75,6 mm eff. BW, NIR-I-beschichtet



UV Fused Silica Double-Convex (DCX) Lenses



Produkt **#22-170** **5 In Stock**

[Andere Beschichtungen](#)

1  €38<sup>88</sup> €155,53

**+ WARENKORB**

Mengenrabatte	
Stk. 1-5	<del>€155,53</del> <b>€38,88</b> stückpreis
Stk. 6-25	<del>€124,63</del> <b>€31,16</b> stückpreis
Stk. 26-49	<del>€116,39</del> <b>€29,10</b> stückpreis
Need More?	<a href="#">Angebotsanfrage</a>

ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

**SPEZIFIKATIONEN**

## Produktdetails

Double-Convex Lens **Typ:**

## Physikalische und mechanische Eigenschaften

25.00 +0.0/-0.025 **Durchmesser (mm):**

<1 **Zentrierung (Bogenminuten):**

Protective as needed **Fase:**

4.87 ±0.10 **Mittendicke CT (mm):**

2.57 **Randdicke ET (mm):**

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

## Optische Eigenschaften

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

75.60 **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:**

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

3.02 **Blende:**

587.6 **Designwellenlänge Brennweite (nm):**

±1 **Toleranz Brennweite (%):**

0.17 **Numerische Apertur NA:**

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

7 J/cm<sup>2</sup> @ 1064nm, 10ns **Zerstörschwelle, Referenz:**

## Konformität mit Standards

**Konform** **RoHS 2015:**

**Anzeigen** **Konformitätszertifikat:**

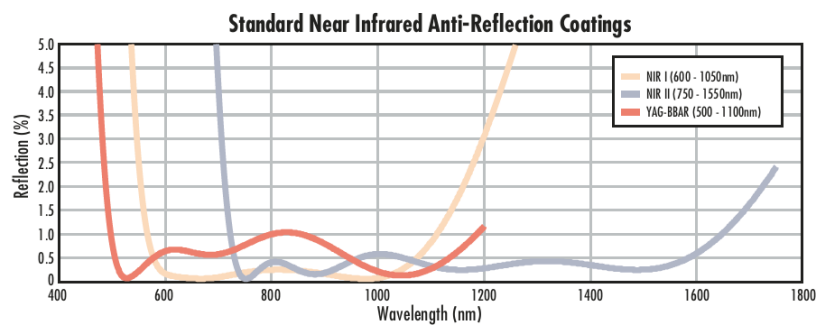
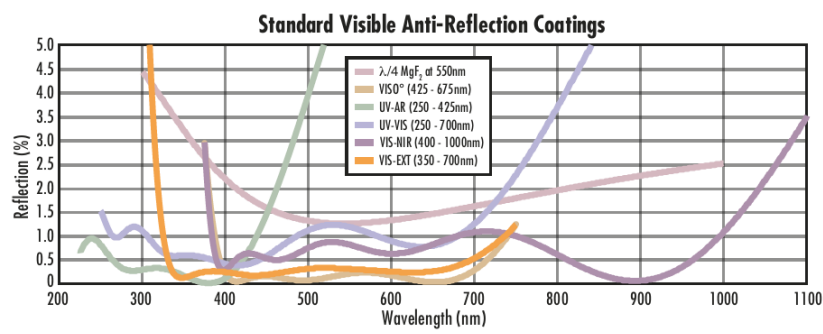
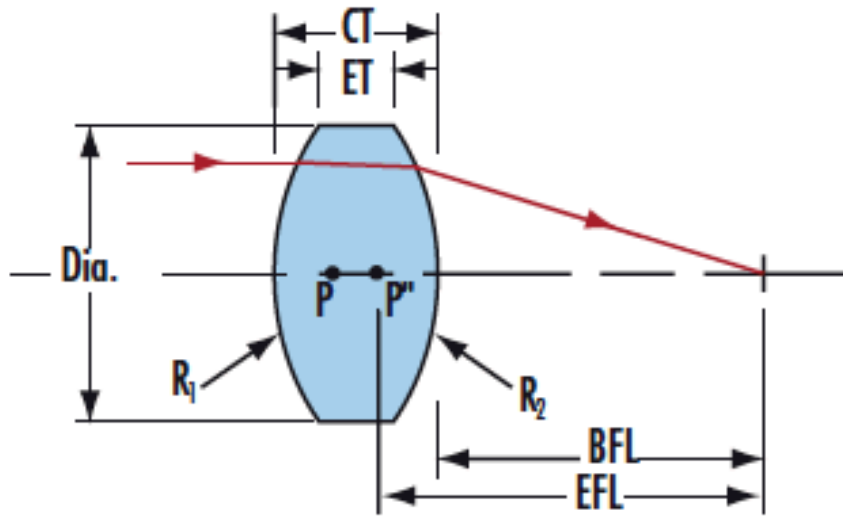
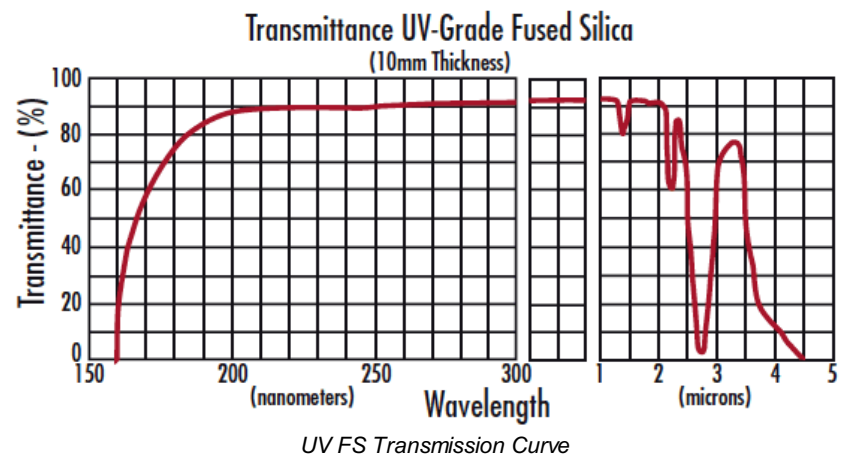
**Konform** **Reach 235:**

## PRODUKTDDETAILS

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

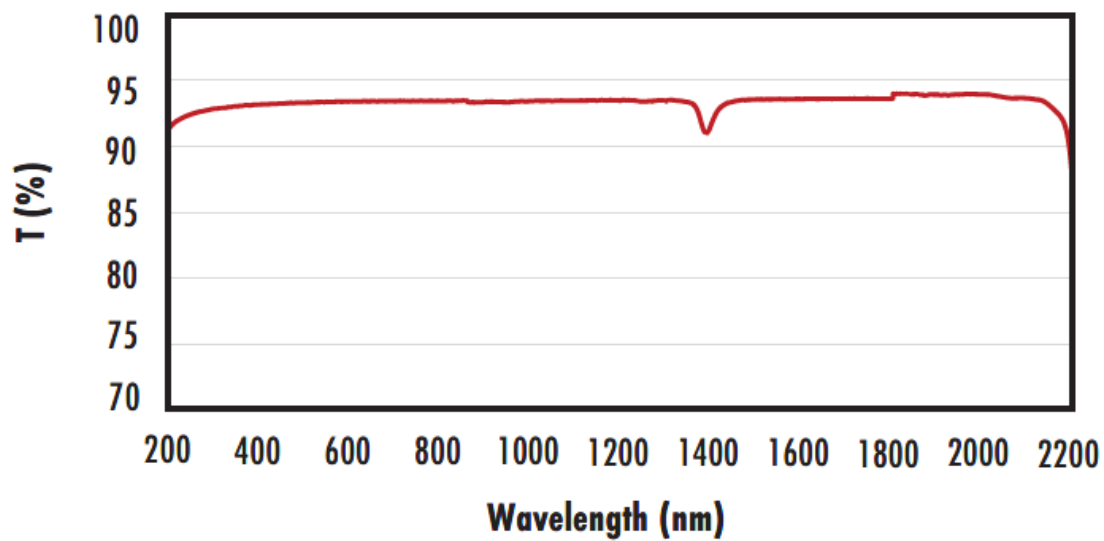
Die TECHSPEC® doppelkonvexen Linsen (DCX-Linsen) aus UV-Quarzglas, auch bikonvexe Linsen genannt, haben zwei positive, symmetrische Oberflächen mit gleichem Krümmungsradius auf beiden Seiten. Die Linsen werden generell für Bildgebungen mit endlichem Abstand und Konjugiertenverhältnis (Verhältnis zwischen 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



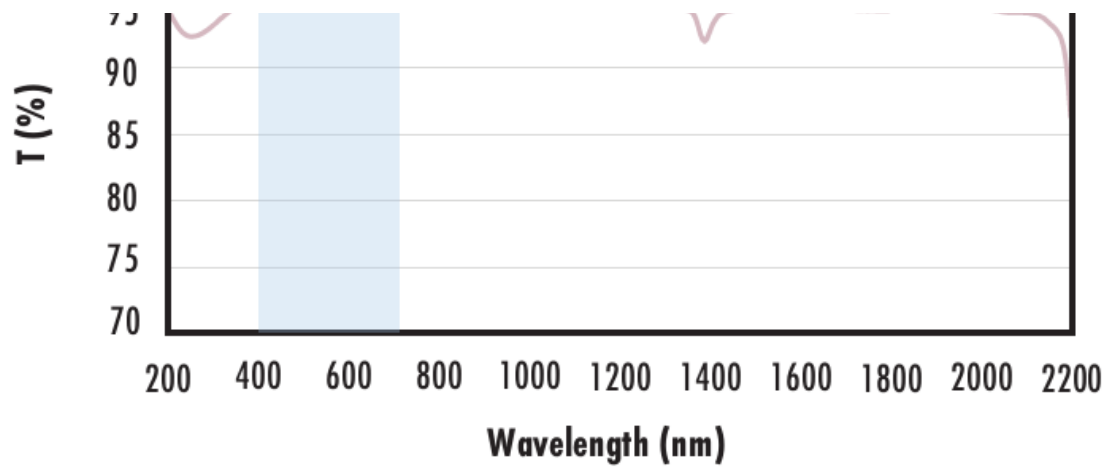
Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

[Click Here to Download Data](#)

### Fused Silica with MgF<sub>2</sub> Coating Typical Transmission

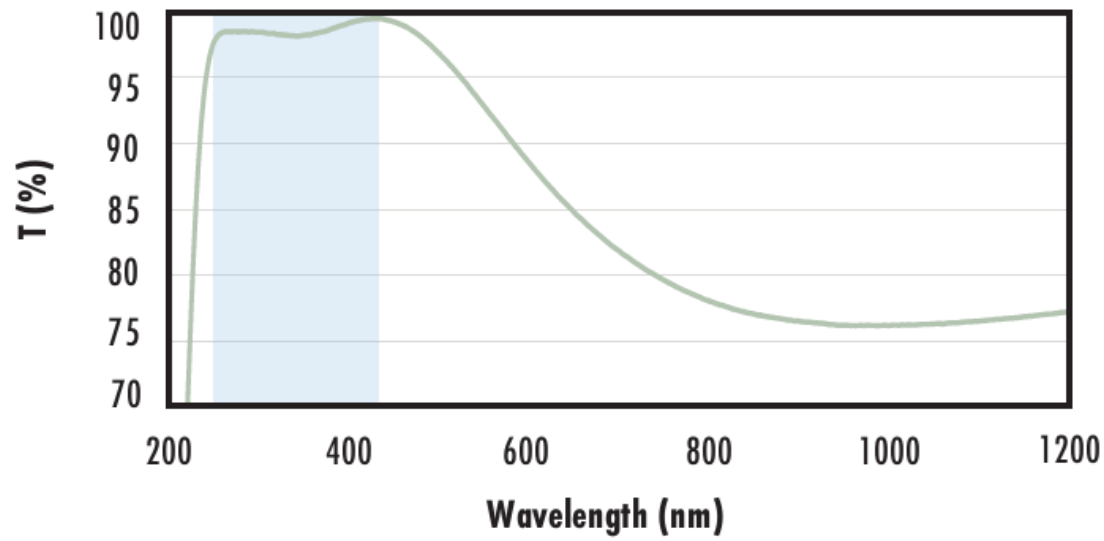


Typical transmission of a 3mm thick fused silica window with



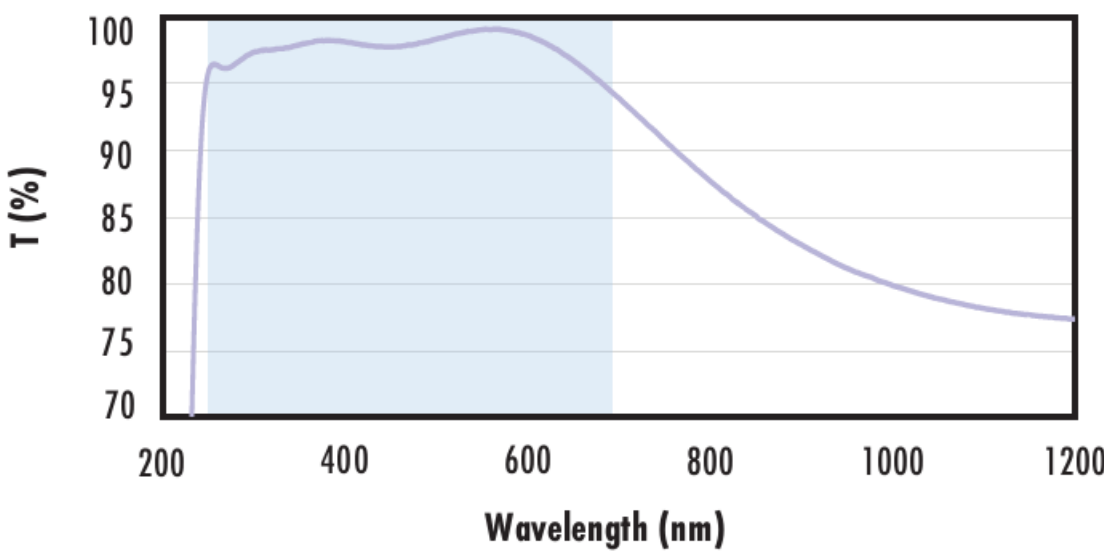
MgF2 (400-700nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$  (N-BK7)  
 Data outside this range is not guaranteed and is for reference only.  
[Click Here to Download Data](#)

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



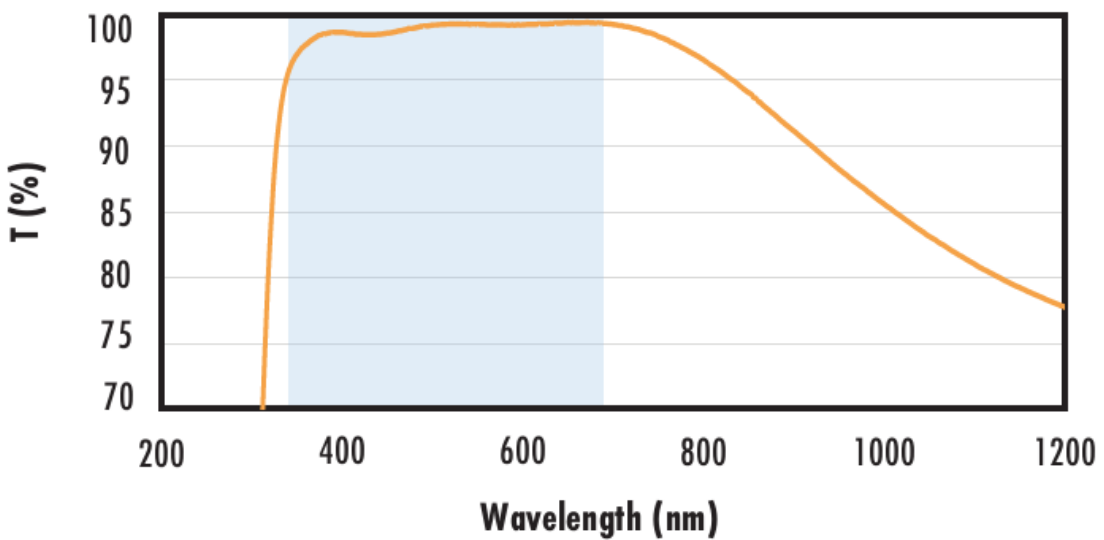
Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$   
 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**



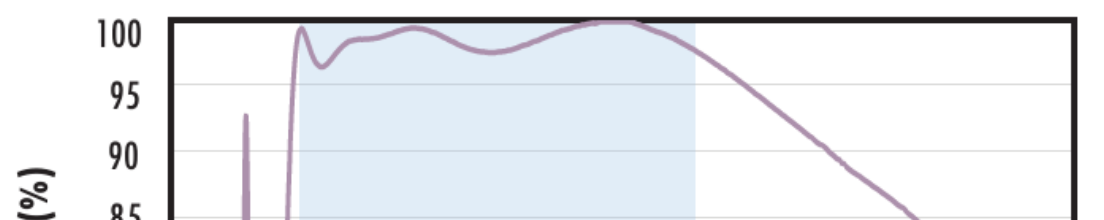
Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$   
 $R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$   
 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**

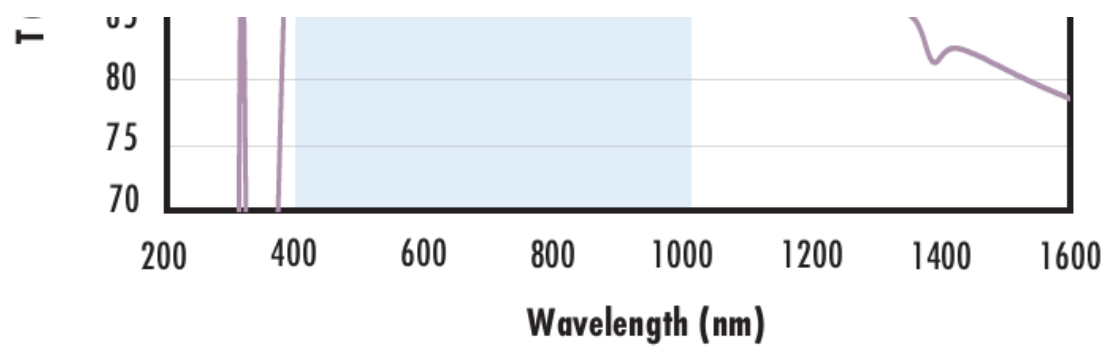


Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.  
 The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$   
 Data outside this range is not guaranteed and 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:  
 $R_{abs} \leq 0.25\% @ 880\text{nm}$   
 $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$

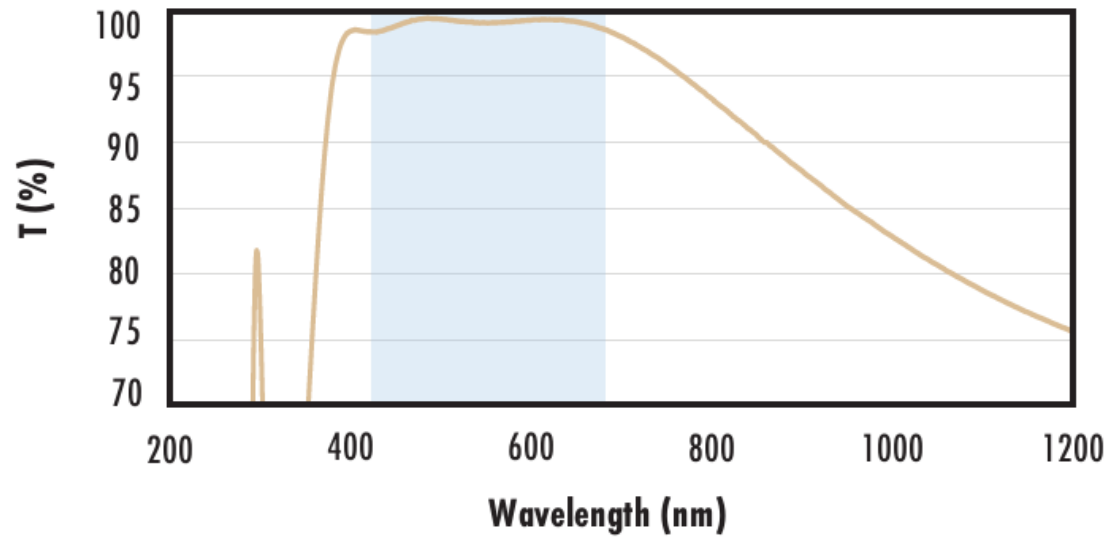


$R_{avg} \leq 1.25\% @ 890 - 1000nm$

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.

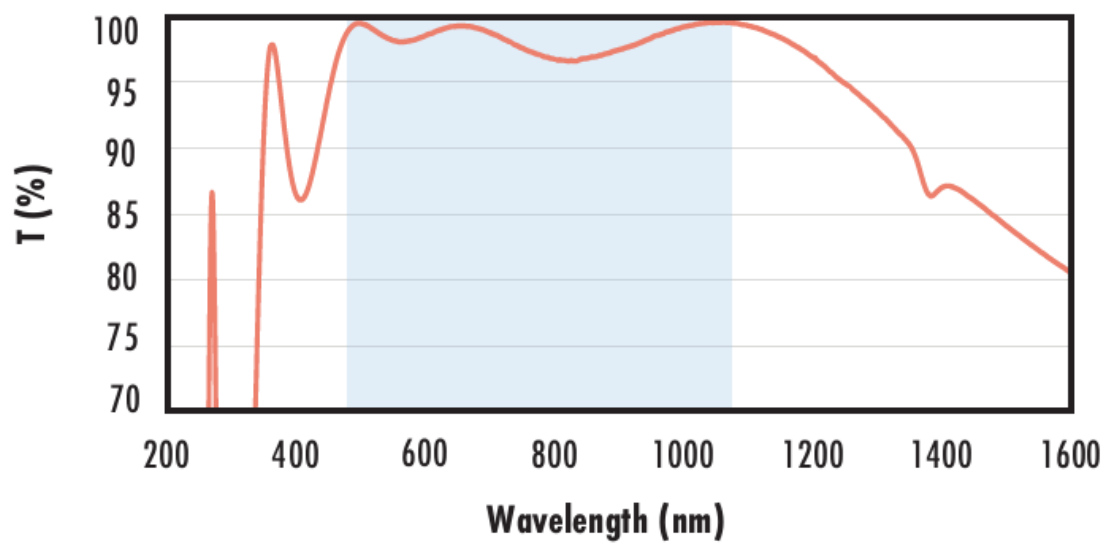
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

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

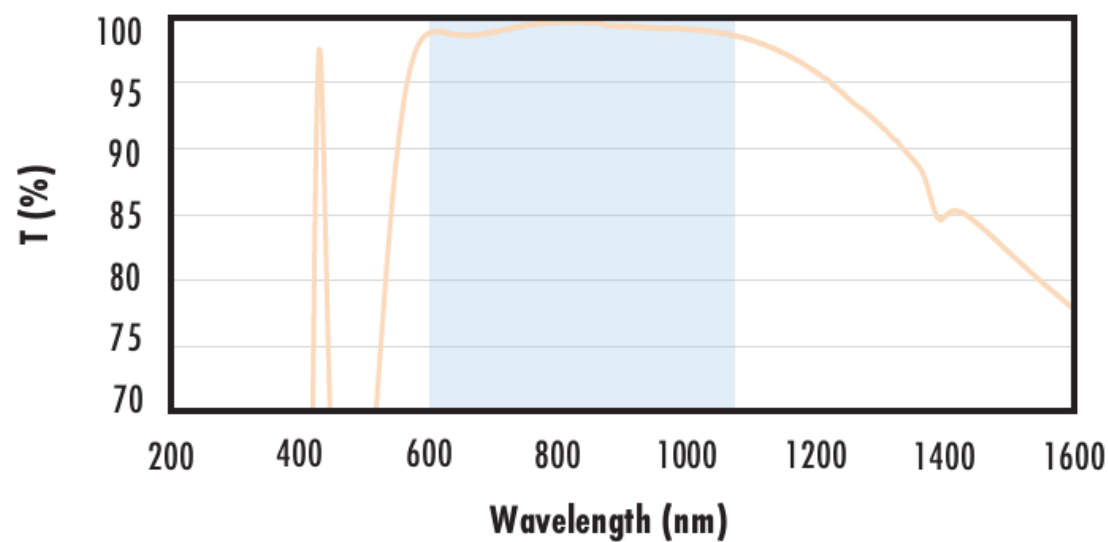
$R_{abs} \leq 0.25\% @ 1064nm$

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

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.

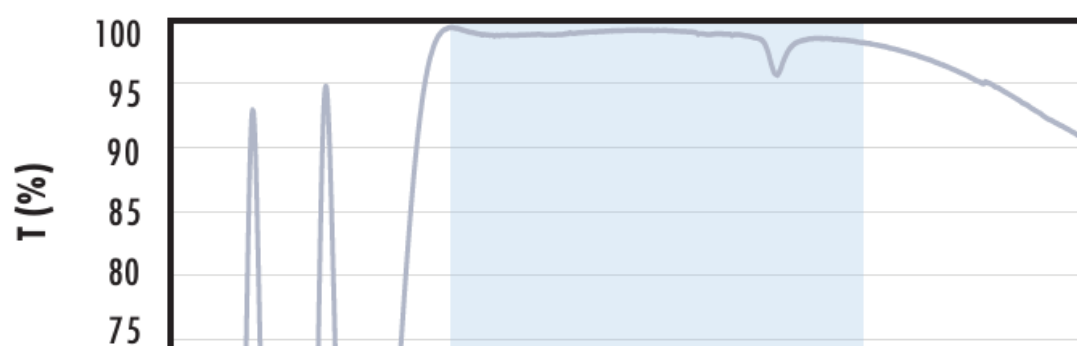
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

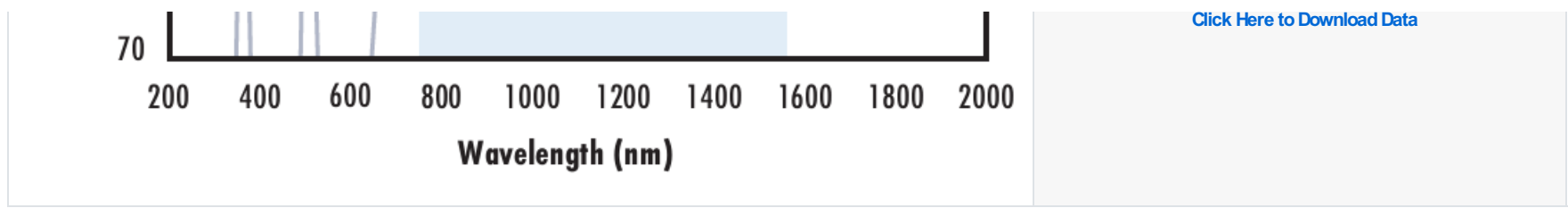
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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

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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