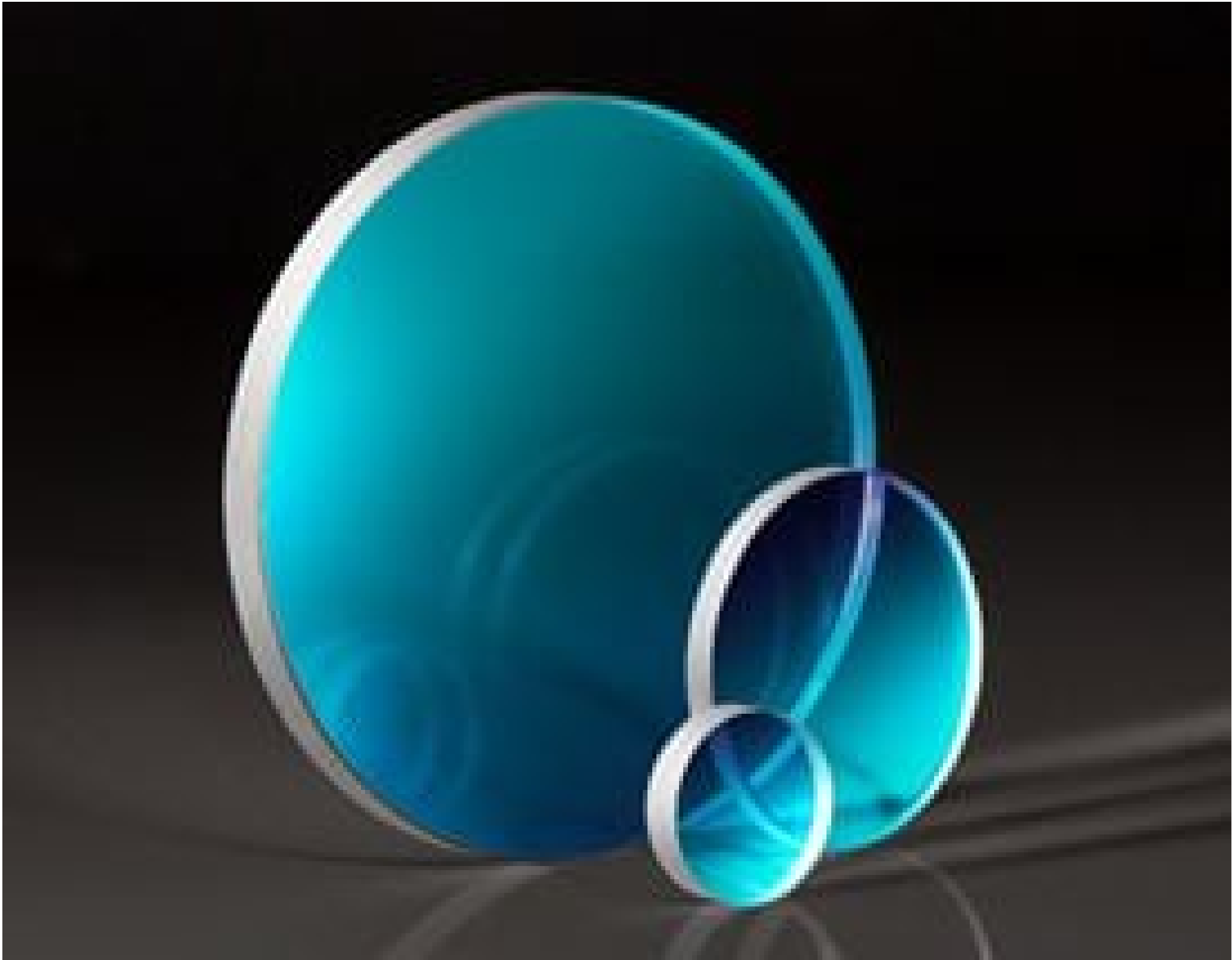


TECHSPEC<sup>®</sup>

Keilfenster aus Quarzglas, 25 mm Durchmesser, VIS-0°-beschichtet, 30 Bogenminuten



TECHSPEC<sup>®</sup> Fused Silica Wedged Windows

Produkt **#25-616** 1 In Stock

-

1

+

€191<sup>,00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €191,00 stückpreis              |
| Stk. 6-25     | €152,00 stückpreis              |
| Stk. 26-49    | €143,00 stückpreis              |
| Need More?    | <a href="#">Angebotsanfrage</a> |

ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Wedged Window

Typ:

Physikalische und mechanische Eigenschaften

22.50

Freie Apertur CA (mm):

|                  |                          |
|------------------|--------------------------|
| 25.00 +0.0/-0.10 | Durchmesser (mm):        |
| 3.00 ±0.20       | Dicke (mm):              |
| Fine Ground      | Kanten:                  |
| 73               | Elastizitätsmodul (GPa): |
| 30' ±10'         | Keilwinkel (arcmin):     |

Optische Eigenschaften

|                             |                                   |
|-----------------------------|-----------------------------------|
| VS 0° (425-675nm)           | Beschichtung:                     |
| Ravg ≤0.4% @ 425 - 675nm    | Beschichtungsspezifikation:       |
| 1.458                       | Brechungsindex (n <sub>d</sub> ): |
| Fused Silica (Corning 7980) | Substrat: □                       |
| λ/10                        | Oberflächenebenheit (P-V):        |
| 20-10                       | Oberflächenqualität:              |
| 425 - 675                   | Wellenlängenbereich (nm):         |
| 5 J/cm2 @ 532nm, 10ns       | Zerstörschwelle, Referenz: □      |

Materialeigenschaften

|                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|
| Thermischer Ausdehnungskoeffizient CTE (10 <sup>-6</sup> /°C):<br>0.52 (+5 to +35°C)<br>0.57 (0 to +200°C)<br>0.48 (-100 to +200°C) |
|-------------------------------------------------------------------------------------------------------------------------------------|

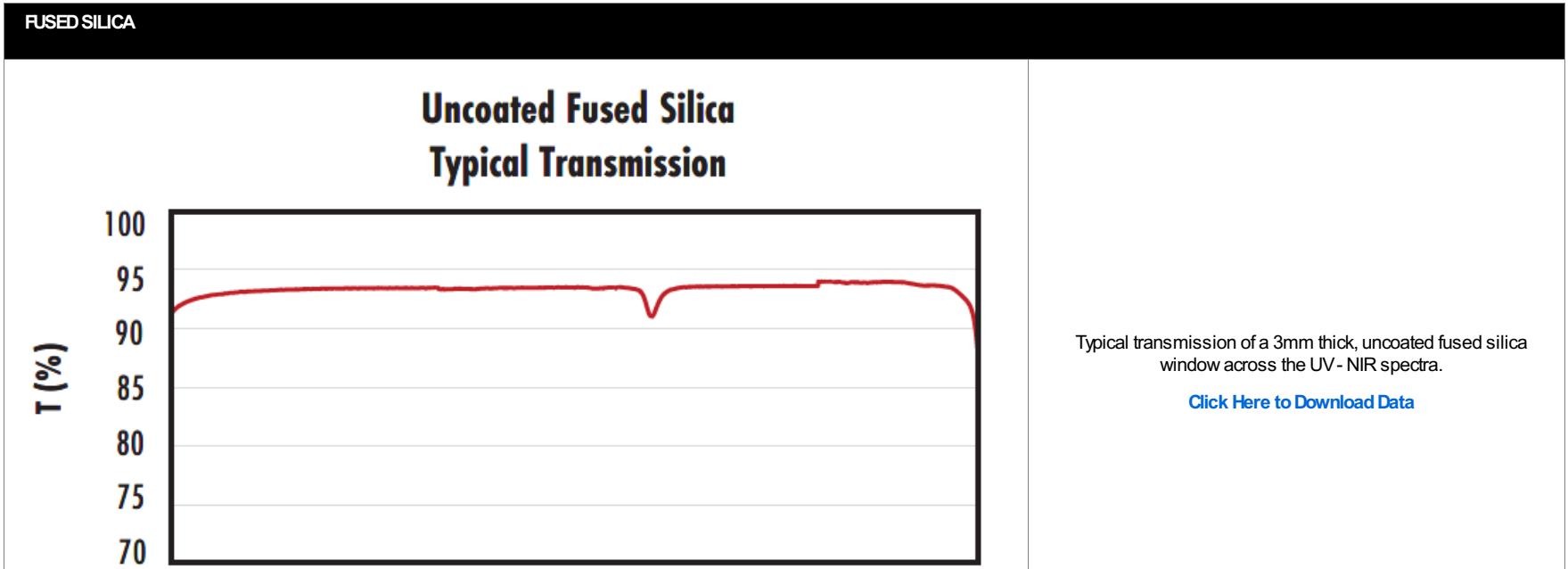
Konformität mit Standards

|          |                         |
|----------|-------------------------|
| Konform  | RoHS 2015:              |
| Anzeigen | Konformitätszertifikat: |
| Konform  | Reach 235:              |

Produktdetails

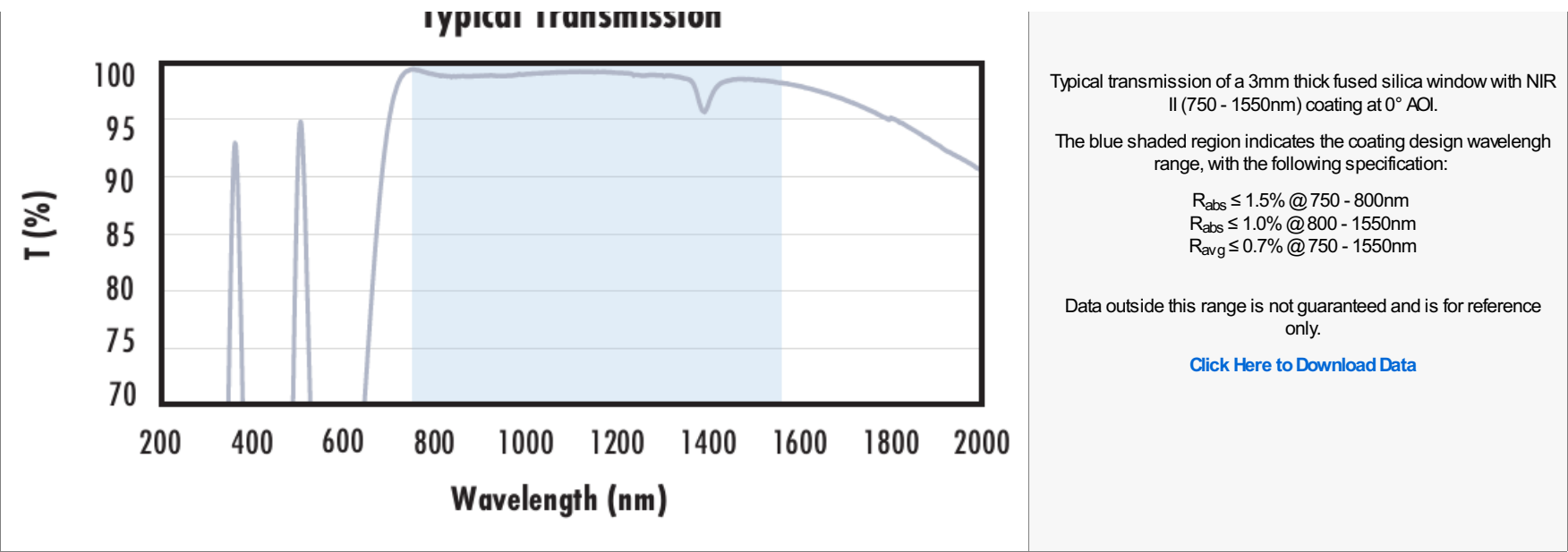
- Keilwinkel von 30 Bogenminuten bis 10°
  - Oberflächenebenheit λ/10 und Oberflächenqualität 20-10
  - Verhindern Laserinstabilität bei Einsatz in Laserresonatoren
  - Keilfenster aus N-BK7 und plane Fenster aus Quarzglas sind ebenfalls verfügbar
- Die TECHSPEC® Keilfenster aus UV-Quarzglas haben einen Keilwinkel zwischen 30 Bogenminuten und 10°. Der Keil der Fenster eliminiert Etalon-Effekte, indem verhindert wird, dass Rückreflexionen den gleichen optischen Strahlengang haben wie der transmittierte Strahl. Dies schützt bei einem Einsatz innerhalb des Laserresonators vor Laserinstabilität, Modensprüngen und Leistungsspitzen und bei einem Einsatz außerhalb vor Strahlinterferenzeffekten. Die TECHSPEC® Keilfenster aus UV-Quarzglas sind ideal für den Einsatz in Laseranwendungen im UV oder mit hoher Leistung, da sie eine hohe UV-Transmission und Unempfindlichkeit gegenüber Temperaturschwankungen bieten. Keilfenster können auch als Strahl-Sampler oder Auskopplungs-Optik genutzt werden, um Laserstrahleigenschaften wie die Strahlleistung über eine gewisse Zeitspanne zu beobachten.

Technische Informationen



|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>2004006008001000120014001600180020002200</div> <div>Wavelength (nm)</div>                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <div><div>Fused Silica with MgF<sub>2</sub> Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>2004006008001000120014001600180020002200</div><div>Wavelength (nm)</div></div></div></div></div> | <div>Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div>R<sub>avg</sub> ≤ 1.75% @ 400 - 700nm (N-BK7)</div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                               |
| <div><div>Fused Silica with UV-AR Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>20040060080010001200</div><div>Wavelength (nm)</div></div></div></div></div>                               | <div>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div>R<sub>abs</sub> ≤ 1.0% @ 250 - 425nm</div> <div>R<sub>avg</sub> ≤ 0.75% @ 250 - 425nm</div> <div>R<sub>avg</sub> ≤ 0.5% @ 370 - 420nm</div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div> |
| <div><div>Fused Silica with UV-VIS Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>20040060080010001200</div><div>Wavelength (nm)</div></div></div></div></div>                              | <div>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div>R<sub>abs</sub> ≤ 1.0% @ 350 - 450nm</div> <div>R<sub>avg</sub> ≤ 1.5% @ 250 - 700nm</div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                 |
| <div><div>Fused Silica with VIS-EXT Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>20040060080010001200</div><div>Wavelength (nm)</div></div></div></div></div>                             | <div>Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div>R<sub>avg</sub> ≤ 0.5% @ 350 - 700nm</div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div><div>Fused Silica with VIS-NIR Coating</div><div>Typical Transmission</div></div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div></div><div><div>Wavelength (nm)</div></div></div><div></div></div></div>  | <div><div>Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><div><math>R_{abs} \leq 0.25\%</math> @ 880nm</div><div><math>R_{avg} \leq 1.25\%</math> @ 400 - 870nm</div><div><math>R_{avg} \leq 1.25\%</math> @ 890 - 1000nm</div></div></div><div>Data outside this range is not guaranteed and is for reference only.</div><div><a href="#">Click Here to Download Data</a></div></div> |
| <div><div><div>Fused Silica with VIS 0° Coating</div><div>Typical Transmission</div></div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div></div><div><div>Wavelength (nm)</div></div></div><div></div></div></div>                                 | <div><div>Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><math>R_{avg} \leq 0.4\%</math> @ 425 - 675nm</div></div><div>Data outside this range is not guaranteed and is for reference only.</div><div><a href="#">Click Here to Download Data</a></div></div>                                                                                                                            |
| <div><div><div>Fused Silica with YAG-BBAR Coating</div><div>Typical Transmission</div></div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div></div><div><div>Wavelength (nm)</div></div></div><div></div></div></div> | <div><div>Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><div><math>R_{abs} \leq 0.25\%</math> @ 532nm</div><div><math>R_{abs} \leq 0.25\%</math> @ 1064nm</div><div><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</div></div></div><div>Data outside this range is not guaranteed and is for reference only.</div><div><a href="#">Click Here to Download Data</a></div></div>      |
| <div><div><div>Fused Silica with NIR I Coating</div><div>Typical Transmission</div></div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div></div><div><div>Wavelength (nm)</div></div></div><div></div></div></div>    | <div><div>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div><div><div><math>R_{avg} \leq 0.5\%</math> @ 600 - 1050nm</div></div><div>Data outside this range is not guaranteed and is for reference only.</div><div><a href="#">Click Here to Download Data</a></div></div>                                                                                                                         |
| <div><div><div>Fused Silica with NIR II Coating</div><div>Typical Transmission</div></div></div>                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



## Beschichtungskurven

### Kundenspezifische Produkte

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungskomponenten 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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- Enge Toleranzen und komplexe Formen
- Skalierbare Produktion – vom Prototypen zur Serie

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