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## TECHSPEC® Zinc Selenide (ZnSe) Windows



- Low Dispersion
- Available Uncoated or AR Coated
- Ideal for Thermal Imaging, FLIR, and Medical Systems

### Common Specifications

#### Physical & Mechanical Properties

|                         |                      |                                            |        |
|-------------------------|----------------------|--------------------------------------------|--------|
| <b>Bevel:</b>           | Protective as needed | <b>Clear Aperture (%):</b>                 | 90     |
| <b>Edges:</b>           | Fine Ground          | <b>Knoop Hardness (kg/mm<sup>2</sup>):</b> | 120.00 |
| <b>Poisson's Ratio:</b> | 0.28                 |                                            |        |

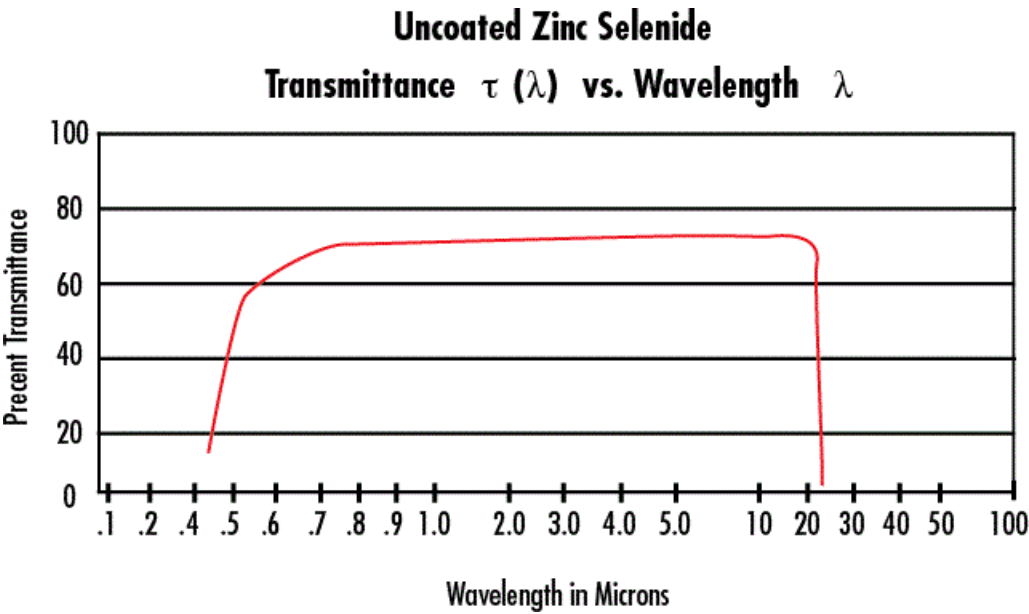
#### Optical Properties

|                                             |                      |                                |               |
|---------------------------------------------|----------------------|--------------------------------|---------------|
| <b>Index of Refraction (n<sub>d</sub>):</b> | 2.631                |                                |               |
| <b>Substrate:</b>                           | Zinc Selenide (ZnSe) | <b>Surface Flatness (P-V):</b> | λ/10 @ 10.6μm |

#### Material Properties

|                                                                   |      |                                    |      |
|-------------------------------------------------------------------|------|------------------------------------|------|
| <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b> | 7.57 | <b>Density (g/cm<sup>3</sup>):</b> | 5.27 |
|-------------------------------------------------------------------|------|------------------------------------|------|

Technical Information



## Products

| Dia.<br>(mm) | Dimensions<br>(mm) | Thickness<br>(mm) | Coating                | Stock<br>Number         | Price                                       | Buy          |
|--------------|--------------------|-------------------|------------------------|-------------------------|---------------------------------------------|--------------|
| 5.00         | -                  | 1.00              | Uncoated               | <a href="#">#20-164</a> | S\$232.99<br><a href="#">Volume Pricing</a> | 17 In Stock  |
| 5.00         | -                  | 1.00              | BBAR<br>(1650-3000nm)  | <a href="#">#24-327</a> | S\$292.73<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 10.00        | -                  | 1.50              | Uncoated               | <a href="#">#68-490</a> | S\$289.74<br><a href="#">Volume Pricing</a> | 3 In Stock   |
| 10.00        | -                  | 1.50              | BBAR<br>(1650-3000nm)  | <a href="#">#24-328</a> | S\$349.48<br><a href="#">Volume Pricing</a> | 2 In Stock   |
| 10.00        | -                  | 1.50              | BBAR<br>(3000-12000nm) | <a href="#">#47-936</a> | S\$395.78<br><a href="#">Volume Pricing</a> | Contact Us   |
| 10.00        | -                  | 1.50              | BBAR<br>(8000-12000nm) | <a href="#">#68-498</a> | S\$395.78<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 12.50        | -                  | 1.00              | Uncoated               | <a href="#">#68-506</a> | S\$312.14<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 12.50        | -                  | 1.00              | BBAR<br>(1650-3000nm)  | <a href="#">#24-329</a> | S\$371.88<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 12.50        | -                  | 1.00              | BBAR<br>(3000-12000nm) | <a href="#">#68-511</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 12.50        | -                  | 1.00              | BBAR<br>(8000-12000nm) | <a href="#">#68-516</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 12.50        | -                  | 2.00              | Uncoated               | <a href="#">#68-491</a> | S\$312.14<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 12.50        | -                  | 2.00              | BBAR<br>(1650-3000nm)  | <a href="#">#24-330</a> | S\$371.88<br><a href="#">Volume Pricing</a> | 8 In Stock   |
| 12.50        | -                  | 2.00              | BBAR<br>(3000-12000nm) | <a href="#">#47-937</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 14 In Stock  |

|       |   |      |                        |                         |                                             |              |
|-------|---|------|------------------------|-------------------------|---------------------------------------------|--------------|
| 12.50 | - | 2.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-499</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 12.70 | - | 1.00 | Uncoated               | <a href="#">#39-391</a> | S\$312.14<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 12.70 | - | 1.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-331</a> | S\$371.88<br><a href="#">Volume Pricing</a> | 6 In Stock   |
| 12.70 | - | 1.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-405</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 9 In Stock   |
| 12.70 | - | 1.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-419</a> | S\$424.15<br><a href="#">Volume Pricing</a> | Contact Us   |
| 12.70 | - | 2.00 | Uncoated               | <a href="#">#39-392</a> | S\$312.14<br><a href="#">Volume Pricing</a> | 17 In Stock  |
| 12.70 | - | 2.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-332</a> | S\$371.88<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 12.70 | - | 2.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-406</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 9 In Stock   |
| 12.70 | - | 2.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-420</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 8 In Stock   |
| 20.00 | - | 2.00 | Uncoated               | <a href="#">#68-492</a> | S\$352.47<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 20.00 | - | 2.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-333</a> | S\$410.71<br><a href="#">Volume Pricing</a> | 4 In Stock   |
| 20.00 | - | 2.00 | BBAR<br>(3000-12000nm) | <a href="#">#63-210</a> | S\$474.93<br><a href="#">Volume Pricing</a> | 14 In Stock  |
| 20.00 | - | 2.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-500</a> | S\$474.93<br><a href="#">Volume Pricing</a> | 6 In Stock   |
| 25.00 | - | 1.00 | Uncoated               | <a href="#">#68-507</a> | S\$364.41<br><a href="#">Volume Pricing</a> | Contact Us   |
| 25.00 | - | 1.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-334</a> | S\$424.15<br><a href="#">Volume Pricing</a> | 4 In Stock   |

|       |               |      |                        |                         |                                             |             |
|-------|---------------|------|------------------------|-------------------------|---------------------------------------------|-------------|
| 25.00 | -             | 1.00 | BBAR<br>(3000-12000nm) | <a href="#">#68-512</a> | S\$566.04<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.00 | -             | 1.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-517</a> | S\$566.04<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.00 | -             | 2.00 | Uncoated               | <a href="#">#68-508</a> | S\$380.84<br><a href="#">Volume Pricing</a> | 14 In Stock |
| 25.00 | -             | 2.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-335</a> | S\$440.58<br><a href="#">Volume Pricing</a> | 2 In Stock  |
| 25.00 | -             | 2.00 | BBAR<br>(3000-12000nm) | <a href="#">#68-513</a> | S\$594.41<br><a href="#">Volume Pricing</a> | 6 In Stock  |
| 25.00 | -             | 2.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-518</a> | S\$594.41<br><a href="#">Volume Pricing</a> | 7 In Stock  |
| 25.00 | -             | 3.00 | Uncoated               | <a href="#">#68-493</a> | S\$407.73<br><a href="#">Volume Pricing</a> | 4 In Stock  |
| -     | 25.00 x 25.00 | 3.00 | Uncoated               | <a href="#">#27-500</a> | S\$388.31<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.00 | -             | 3.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-336</a> | S\$467.47<br><a href="#">Volume Pricing</a> | 8 In Stock  |
| 25.00 | -             | 3.00 | BBAR<br>(3000-12000nm) | <a href="#">#47-938</a> | S\$621.30<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.00 | -             | 3.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-501</a> | S\$621.30<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.00 | -             | 5.00 | Uncoated               | <a href="#">#39-393</a> | S\$482.40<br><a href="#">Volume Pricing</a> | Contact Us  |
| 25.00 | -             | 5.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-337</a> | S\$542.14<br><a href="#">Volume Pricing</a> | 1 In Stock  |
| 25.00 | -             | 5.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-407</a> | S\$697.46<br><a href="#">Volume Pricing</a> | 9 In Stock  |
| 25.00 | -             | 5.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-421</a> | S\$697.46<br><a href="#">Volume Pricing</a> | 7 In Stock  |

|       |   |      |                        |                         |                                             |             |
|-------|---|------|------------------------|-------------------------|---------------------------------------------|-------------|
| 25.40 | - | 1.00 | Uncoated               | <a href="#">#39-394</a> | S\$352.47<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.40 | - | 1.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-338</a> | S\$410.71<br><a href="#">Volume Pricing</a> | 4 In Stock  |
| 25.40 | - | 1.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-408</a> | S\$566.04<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.40 | - | 1.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-424</a> | S\$566.04<br><a href="#">Volume Pricing</a> | 14 In Stock |
| 25.40 | - | 2.00 | Uncoated               | <a href="#">#39-396</a> | S\$380.84<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.40 | - | 2.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-339</a> | S\$440.58<br><a href="#">Volume Pricing</a> | Contact Us  |
| 25.40 | - | 2.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-409</a> | S\$594.41<br><a href="#">Volume Pricing</a> | 10 In Stock |
| 25.40 | - | 2.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-434</a> | S\$594.41<br><a href="#">Volume Pricing</a> | 7 In Stock  |
| 25.40 | - | 3.00 | Uncoated               | <a href="#">#39-397</a> | S\$407.73<br><a href="#">Volume Pricing</a> | 10 In Stock |
| 25.40 | - | 3.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-340</a> | S\$467.47<br><a href="#">Volume Pricing</a> | 4 In Stock  |
| 25.40 | - | 3.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-410</a> | S\$621.30<br><a href="#">Volume Pricing</a> | 8 In Stock  |
| 25.40 | - | 3.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-436</a> | S\$621.30<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 25.40 | - | 5.00 | Uncoated               | <a href="#">#39-398</a> | S\$482.40<br><a href="#">Volume Pricing</a> | Contact Us  |
| 25.40 | - | 5.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-341</a> | S\$542.14<br><a href="#">Volume Pricing</a> | Contact Us  |
| 25.40 | - | 5.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-411</a> | S\$697.46<br><a href="#">Volume Pricing</a> | 9 In Stock  |

|       |   |      |                        |                         |                                               |              |
|-------|---|------|------------------------|-------------------------|-----------------------------------------------|--------------|
| 25.40 | - | 5.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-437</a> | S\$697.46<br><a href="#">Volume Pricing</a>   | Contact Us   |
| 30.00 | - | 3.00 | Uncoated               | <a href="#">#68-494</a> | S\$700.45<br><a href="#">Volume Pricing</a>   | 14 In Stock  |
| 30.00 | - | 3.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-342</a> | S\$821.43<br><a href="#">Volume Pricing</a>   | 5 In Stock   |
| 30.00 | - | 3.00 | BBAR<br>(3000-12000nm) | <a href="#">#63-211</a> | S\$925.97<br><a href="#">Volume Pricing</a>   | Contact Us   |
| 30.00 | - | 3.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-502</a> | S\$925.97<br><a href="#">Volume Pricing</a>   | 9 In Stock   |
| 40.00 | - | 4.00 | Uncoated               | <a href="#">#68-495</a> | S\$881.17<br><a href="#">Volume Pricing</a>   | 10 In Stock  |
| 40.00 | - | 4.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-343</a> | S\$1,008.11<br><a href="#">Volume Pricing</a> | 2 In Stock   |
| 40.00 | - | 4.00 | BBAR<br>(3000-12000nm) | <a href="#">#63-212</a> | S\$1,127.59<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 40.00 | - | 4.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-503</a> | S\$1,127.59<br><a href="#">Volume Pricing</a> | 6 In Stock   |
| 50.00 | - | 1.00 | Uncoated               | <a href="#">#68-509</a> | S\$851.30<br><a href="#">Volume Pricing</a>   | 20+ In Stock |
| 50.00 | - | 1.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-344</a> | S\$978.24<br><a href="#">Volume Pricing</a>   | 4 In Stock   |
| 50.00 | - | 1.00 | BBAR<br>(3000-12000nm) | <a href="#">#68-514</a> | S\$1,202.27<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 50.00 | - | 1.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-519</a> | S\$1,202.27<br><a href="#">Volume Pricing</a> | 1 In Stock   |
| 50.00 | - | 2.00 | Uncoated               | <a href="#">#68-510</a> | S\$881.17<br><a href="#">Volume Pricing</a>   | 1 In Stock   |
| 50.00 | - | 2.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-345</a> | S\$1,008.11<br><a href="#">Volume Pricing</a> | 2 In Stock   |

|       |               |      |                        |                         |                                               |             |
|-------|---------------|------|------------------------|-------------------------|-----------------------------------------------|-------------|
| 50.00 | -             | 2.00 | BBAR<br>(3000-12000nm) | <a href="#">#68-515</a> | S\$1,232.14<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 50.00 | -             | 2.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-520</a> | S\$1,232.14<br><a href="#">Volume Pricing</a> | 3 In Stock  |
| 50.00 | -             | 3.00 | Uncoated               | <a href="#">#68-496</a> | S\$1,000.65<br><a href="#">Volume Pricing</a> | 11 In Stock |
| -     | 50.00 x 50.00 | 3.00 | Uncoated               | <a href="#">#27-537</a> | S\$955.84<br><a href="#">Volume Pricing</a>   | 2 In Stock  |
| 50.00 | -             | 3.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-346</a> | S\$1,112.66<br><a href="#">Volume Pricing</a> | 5 In Stock  |
| 50.00 | -             | 3.00 | BBAR<br>(3000-12000nm) | <a href="#">#47-939</a> | S\$1,344.15<br><a href="#">Volume Pricing</a> | Contact Us  |
| 50.00 | -             | 3.00 | BBAR<br>(8000-12000nm) | <a href="#">#68-504</a> | S\$1,344.15<br><a href="#">Volume Pricing</a> | 4 In Stock  |
| 50.00 | -             | 5.00 | Uncoated               | <a href="#">#39-399</a> | S\$1,217.20<br><a href="#">Volume Pricing</a> | 7 In Stock  |
| 50.00 | -             | 5.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-347</a> | S\$1,336.68<br><a href="#">Volume Pricing</a> | 3 In Stock  |
| 50.00 | -             | 5.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-412</a> | S\$1,560.71<br><a href="#">Volume Pricing</a> | 13 In Stock |
| 50.00 | -             | 5.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-438</a> | S\$1,560.71<br><a href="#">Volume Pricing</a> | 7 In Stock  |
| 50.80 | -             | 1.00 | Uncoated               | <a href="#">#39-400</a> | S\$851.30<br><a href="#">Volume Pricing</a>   | 8 In Stock  |
| 50.80 | -             | 1.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-348</a> | S\$978.24<br><a href="#">Volume Pricing</a>   | 6 In Stock  |
| 50.80 | -             | 1.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-413</a> | S\$1,202.27<br><a href="#">Volume Pricing</a> | 2 In Stock  |
| 50.80 | -             | 1.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-440</a> | S\$1,202.27<br><a href="#">Volume Pricing</a> | Contact Us  |



|       |   |      |                        |                         |                                               |              |
|-------|---|------|------------------------|-------------------------|-----------------------------------------------|--------------|
| 50.80 | - | 2.00 | Uncoated               | <a href="#">#39-401</a> | S\$881.17<br><a href="#">Volume Pricing</a>   | 2 In Stock   |
| 50.80 | - | 2.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-349</a> | S\$1,008.11<br><a href="#">Volume Pricing</a> | 2 In Stock   |
| 50.80 | - | 2.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-414</a> | S\$1,232.14<br><a href="#">Volume Pricing</a> | 4 In Stock   |
| 50.80 | - | 2.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-464</a> | S\$1,232.14<br><a href="#">Volume Pricing</a> | 5 In Stock   |
| 50.80 | - | 3.00 | Uncoated               | <a href="#">#39-402</a> | S\$1,000.65<br><a href="#">Volume Pricing</a> | 8 In Stock   |
| 50.80 | - | 3.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-350</a> | S\$1,112.66<br><a href="#">Volume Pricing</a> | 1 In Stock   |
| 50.80 | - | 3.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-415</a> | S\$1,344.15<br><a href="#">Volume Pricing</a> | 7 In Stock   |
| 50.80 | - | 3.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-465</a> | S\$1,344.15<br><a href="#">Volume Pricing</a> | 2 In Stock   |
| 50.80 | - | 5.00 | Uncoated               | <a href="#">#39-404</a> | S\$1,209.74<br><a href="#">Volume Pricing</a> | Contact Us   |
| 50.80 | - | 5.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-351</a> | S\$1,336.68<br><a href="#">Volume Pricing</a> | Contact Us   |
| 50.80 | - | 5.00 | BBAR<br>(3000-12000nm) | <a href="#">#39-416</a> | S\$1,560.71<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 50.80 | - | 5.00 | BBAR<br>(8000-12000nm) | <a href="#">#39-467</a> | S\$1,560.71<br><a href="#">Volume Pricing</a> | 13 In Stock  |
| 75.00 | - | 6.00 | Uncoated               | <a href="#">#68-497</a> | S\$2,949.66<br><a href="#">Volume Pricing</a> | 16 In Stock  |
| 75.00 | - | 6.00 | BBAR<br>(1650-3000nm)  | <a href="#">#24-352</a> | S\$3,263.30<br><a href="#">Volume Pricing</a> | 1 In Stock   |
| 75.00 | - | 6.00 | BBAR<br>(3000-12000nm) | <a href="#">#48-855</a> | S\$3,569.47<br><a href="#">Volume Pricing</a> | Contact Us   |

|        |   |      |                       |                         |                                               |             |
|--------|---|------|-----------------------|-------------------------|-----------------------------------------------|-------------|
| 76.20  | - | 6.00 | Uncoated              | <a href="#">#17-608</a> | S\$2,949.66<br><a href="#">Volume Pricing</a> | 3 In Stock  |
| 76.20  | - | 6.00 | BBAR<br>(1650-3000nm) | <a href="#">#24-353</a> | S\$3,263.30<br><a href="#">Volume Pricing</a> | 3 In Stock  |
| 101.60 | - | 6.00 | Uncoated              | <a href="#">#17-609</a> | S\$4,517.84<br><a href="#">Volume Pricing</a> | 11 In Stock |
| 127.00 | - | 6.00 | Uncoated              | <a href="#">#17-610</a> | S\$6,384.71<br><a href="#">Volume Pricing</a> | 2 In Stock  |



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Phone: 1-800-363-1992 :

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