Spectralon® Diffuse Reflectance Targets

Durable reflectance panels for laboratory and field applications under harsh conditions

Durable
Spectralon targets are ideal for laboratory, production and field applications that require long exposure to harsh environmental conditions. Because of the diffuse reflectance properties of Spectralon, these targets maintain a constant contrast over a wide range of lighting conditions.

Stable
All Spectralon targets are thermally and chemically stable and easily cleaned. Targets are available in plates up to 24 x 24 inch white or gray material, mounted in a rugged anodized aluminum frame. Calibration data from 250 to 2500 nm, every 50 nm is supplied with the targets and is traceable to the National Institute of Standards and Technology (NIST). Custom targets of various reflectance values are also available up to 3 m x 3 m.

Value
- Durable and washable
- Various reflectance values available
- Impervious to harsh environments
- Thermally and chemically stable

Applications
- Backlight illuminators
- Environmental test targets
- Laser targets
- Optical reflectors
- Remote sensing targets
- Proximity sensors
- Light/sensor compensation
### TABLE 1:
**Corrected Reflectance Values for 99% Spectralon Targets**

<table>
<thead>
<tr>
<th>Wavelength Range (nm)</th>
<th>8°/Hemispherical Spectral Reflectance Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>0.900</td>
</tr>
<tr>
<td>300</td>
<td>0.925</td>
</tr>
<tr>
<td>350</td>
<td>0.975 - 0.995</td>
</tr>
<tr>
<td>500 - 700</td>
<td>0.985 - 0.995</td>
</tr>
<tr>
<td>750 - 1600</td>
<td>0.975 - 0.995</td>
</tr>
<tr>
<td>1650 - 2500</td>
<td>0.925</td>
</tr>
</tbody>
</table>

### TABLE 2:
**Acceptable 8°/Hemispherical Corrected Reflectance Factors for Gray Spectralon Targets**

<table>
<thead>
<tr>
<th>Nominal Reflectance</th>
<th>Tolerance at 600 nm</th>
<th>Flatness Range over 350 - 760 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 - 5%</td>
<td>± 2%</td>
<td>± 4%</td>
</tr>
<tr>
<td>6 - 19%</td>
<td>± 3%</td>
<td>± 5%</td>
</tr>
<tr>
<td>20 - 95%</td>
<td>± 5%</td>
<td>± 5%.</td>
</tr>
</tbody>
</table>
### Specifications

Refer to Tables 1 & 2 for Tolerances

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Order Number</th>
<th>Nominal Reflectance Value</th>
<th>Reflective Area (inches)</th>
<th>Size Mounted (L x W x H inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRT-02-020</td>
<td>AA-00823-900</td>
<td>2%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-02-050</td>
<td>AA-00821-900</td>
<td>2%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-02-100</td>
<td>AA-00822-900</td>
<td>2%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-05-020</td>
<td>AA-00823-800</td>
<td>5%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-05-050</td>
<td>AA-00821-800</td>
<td>5%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-05-100</td>
<td>AA-00822-800</td>
<td>5%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-10-020</td>
<td>AA-00823-700</td>
<td>10%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-10-050</td>
<td>AA-00821-700</td>
<td>10%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-10-100</td>
<td>AA-00822-700</td>
<td>10%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-20-020</td>
<td>AA-00823-600</td>
<td>20%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-20-050</td>
<td>AA-00821-600</td>
<td>20%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-20-100</td>
<td>AA-00822-600</td>
<td>20%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-40-020</td>
<td>AA-00823-500</td>
<td>40%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-40-050</td>
<td>AA-00821-500</td>
<td>40%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-40-100</td>
<td>AA-00822-500</td>
<td>40%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-50-020</td>
<td>AA-00823-400</td>
<td>50%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-50-050</td>
<td>AA-00821-400</td>
<td>50%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-50-100</td>
<td>AA-00822-400</td>
<td>50%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-50-120</td>
<td>AA-00827-400</td>
<td>50%</td>
<td>12 x 12</td>
<td>12.25 x 12.25 x 0.65</td>
</tr>
<tr>
<td>SRT-50-180</td>
<td>AA-00826-400</td>
<td>50%</td>
<td>18 x 18</td>
<td>18.25 x 18.25 x 0.65</td>
</tr>
<tr>
<td>SRT-50-240</td>
<td>AA-00837-400</td>
<td>50%</td>
<td>24 x 24</td>
<td>24.25 x 24.25 x 0.65</td>
</tr>
<tr>
<td>SRT-60-020</td>
<td>AA-00823-300</td>
<td>60%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-60-050</td>
<td>AA-00821-300</td>
<td>60%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-60-100</td>
<td>AA-00822-300</td>
<td>60%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-75-020</td>
<td>AA-00823-200</td>
<td>75%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-75-050</td>
<td>AA-00821-200</td>
<td>75%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-75-100</td>
<td>AA-00822-200</td>
<td>75%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-75-120</td>
<td>AA-00827-200</td>
<td>75%</td>
<td>12 x 12</td>
<td>12.25 x 12.25 x 0.65</td>
</tr>
<tr>
<td>SRT-75-180</td>
<td>AA-00826-200</td>
<td>75%</td>
<td>18 x 18</td>
<td>18.25 x 18.25 x 0.65</td>
</tr>
<tr>
<td>SRT-75-240</td>
<td>AA-00837-200</td>
<td>75%</td>
<td>24 x 24</td>
<td>24.25 x 24.25 x 0.65</td>
</tr>
<tr>
<td>SRT-80-020</td>
<td>AA-00823-100</td>
<td>80%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-80-050</td>
<td>AA-00821-100</td>
<td>80%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-80-100</td>
<td>AA-00822-100</td>
<td>80%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-99-020</td>
<td>AA-00823-000</td>
<td>99%</td>
<td>2 x 2</td>
<td>2.25 x 2.25 x 0.65</td>
</tr>
<tr>
<td>SRT-99-050</td>
<td>AA-00821-000</td>
<td>99%</td>
<td>5 x 5</td>
<td>5.25 x 5.25 x 0.65</td>
</tr>
<tr>
<td>SRT-99-100</td>
<td>AA-00822-000</td>
<td>99%</td>
<td>10 x 10</td>
<td>10.25 x 10.25 x 0.65</td>
</tr>
<tr>
<td>SRT-99-120</td>
<td>AA-00827-000</td>
<td>99%</td>
<td>12 x 12</td>
<td>12.25 x 12.25 x 0.65</td>
</tr>
<tr>
<td>SRT-99-180</td>
<td>AA-00826-000</td>
<td>99%</td>
<td>18 x 18</td>
<td>18.25 x 18.25 x 0.65</td>
</tr>
<tr>
<td>SRT-99-240</td>
<td>AA-00837-000</td>
<td>99%</td>
<td>24 x 24</td>
<td>24.25 x 24.25 x 0.65</td>
</tr>
</tbody>
</table>