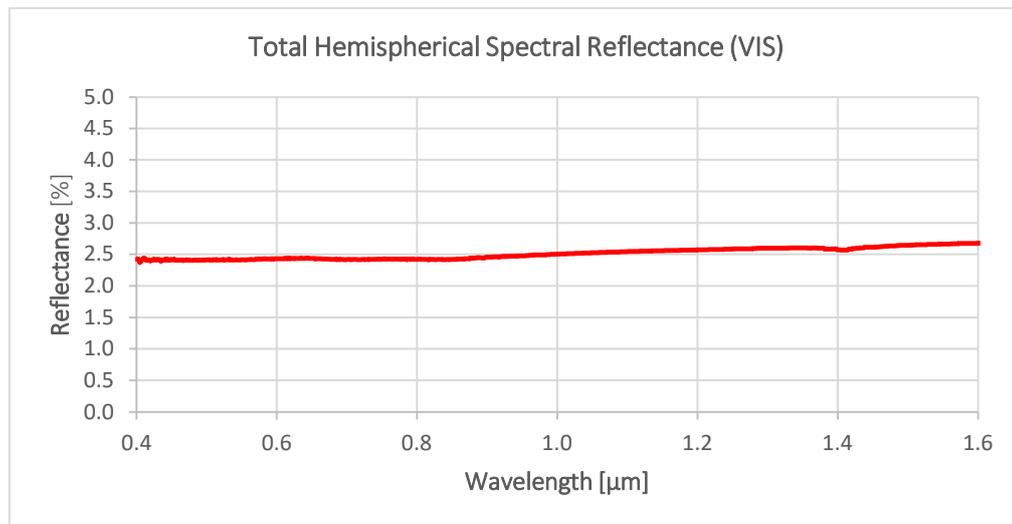


## ACKTAR CORE BLACK™ -

### Coating for Wafer Chucks and Component Mounting

**Acktar Core Black™** is engineered to meet the highest standards of flatness, durability, and cleanliness—making it ideal for wafer chucks and high-precision component mounting. With a flatness of ~2–3 microns and a robust, hardwearing surface, **Core Black™** ensures stable, long-lasting performance even in the most demanding environments. Its ultra-clean, low-outgassing nature and compatibility with a wide range of substrates make it the trusted choice for semiconductor and optical manufacturing processes where mechanical stability and reliability are critical.



## 1. Key Features

<b>Wavelengths</b>	<ul style="list-style-type: none"> <li>EUV-NIR</li> </ul>
<b>Diffusive Surface</b>	<ul style="list-style-type: none"> <li>Superior light diffusing properties, ensuring minimal stray light, absence of ghosts and nearly zero background noise</li> </ul>
<b>Thermal Stability</b>	<ul style="list-style-type: none"> <li>4K – 723 K</li> </ul>
<b>Low Outgassing</b>	<ul style="list-style-type: none"> <li>CVCM &lt; 0.001%, RML &lt; 1.00%</li> </ul>
<b>Ultra-Clean &amp; Particle Free</b>	<ul style="list-style-type: none"> <li>Typical cleanliness values: MOC ~ 1ng/cm<sup>2</sup>, PAC &lt; 30 ppm</li> <li>Suitable for semiconductor and optics manufacturing</li> </ul>
<b>ESD-Safe</b>	<ul style="list-style-type: none"> <li>Core Black™ is in the dissipative range and provides protection against electrostatic discharge (ESD)</li> </ul>
<b>Flatness</b>	<ul style="list-style-type: none"> <li>~2-3 microns</li> </ul>
<b>Durable &amp; Hardwearing</b>	<ul style="list-style-type: none"> <li>Core Black™ has exceptional durability, ensuring long-lasting performance even under challenging conditions</li> </ul>
<b>Coating</b>	<ul style="list-style-type: none"> <li>Thickness &lt;5 μm, weight 1 mg/cm<sup>2</sup></li> <li>100% inorganic</li> </ul>
<b>Certificates</b>	<ul style="list-style-type: none"> <li>RoHS, REACH, ISO 9001:2015, AS9100</li> </ul>
<b>Size availability</b>	<ul style="list-style-type: none"> <li>3 inches - 12 inches, other sizes applicable upon request</li> </ul>

## 2. Benefits

<b>Precision Coating</b>	<ul style="list-style-type: none"> <li>Ensures consistent performance across the entire chuck surface, maintaining accuracy in optical and semiconductor processes</li> </ul>
<b>Custom Masking Available</b>	<ul style="list-style-type: none"> <li>Coating can be selectively applied based on your requirements, protecting areas that don't need coating</li> </ul>
<b>Wide Range of Compatibility</b>	<ul style="list-style-type: none"> <li>Suitable for different substrates, including metals, ceramics, glass, polymers and more!</li> </ul>
<b>Proven Industry Use</b>	<ul style="list-style-type: none"> <li>Acktar coatings are trusted by leading companies in the semiconductor, optics, space, and automotive industries</li> </ul>

## 3. Applications

<b>Wafer Chucks &amp; Processing</b>	<ul style="list-style-type: none"> <li>Ensures high precision in wafer handling and inspection processes</li> </ul>
<b>Component Mounting &amp; Testing</b>	<ul style="list-style-type: none"> <li>Suitable for mounting and testing various optical and electronic components, thanks to its diffusive and durable properties</li> </ul>
<b>Laser Applications</b>	<ul style="list-style-type: none"> <li>High absorption and diffusive properties make it excellent for laser-based systems</li> </ul>



## 4. Contact Us

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