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## 6.35mm Diameter, Sapphire Half-Ball Lens



Stock #48-433 **20+ In Stock**

₹3,192

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### General

Half-Ball Lens Type:

### Physical & Mechanical Properties

6.35 Diameter (mm):

3.18 Radius R (mm):

3.98 Specific Gravity (g/cm<sup>3</sup>):

3.18	<b>Thickness (mm):</b>
300,000	<b>Compressive Strength (psi):</b>
±2.54	<b>Diameter Tolerance (µm):</b>

## Optical Properties

Sapphire (Al <sub>2</sub> O <sub>3</sub> )	<b>Substrate:</b> <input type="checkbox"/>
Uncoated	<b>Coating:</b>
1.77	<b>Index of Refraction (n<sub>d</sub>):</b>
0.64	<b>Sphericity (µm):</b>

## Environmental & Durability Factors

2053.00	<b>Melting Temperature (°C):</b>
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## Regulatory Compliance

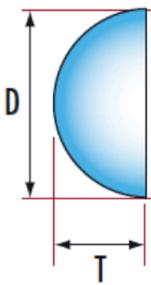
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<a href="#">Compliant</a>	<b>Reach 247:</b>
Switzerland	<b>Country of Origin:</b>
Edmund Optics India Private Limited	<b>Imported By:</b>

## Product Details

- Excellent for Severe Environments
- High Chemical Stability
- [Sapphire and Ruby Ball Lenses](#) Also Available

Sapphire and Ruby Half-Ball Lenses feature a very short back focal length with the convenience of a flat surface for easy mounting. Sapphire features a high index of refraction and excellent broadband transmission characteristics. Ruby half-ball (hemispherical) lenses are easier to see and, therefore, easier to handle for physical applications. Sapphire and Ruby Half-Ball Lenses are very chemically stable and are great for severe environments, high-temperature applications, and applications requiring high melting points. Typical applications include fiber communication, endoscopy, microscopy, optical pick-up devices, and laser measurement systems.

## Technical Information



## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).