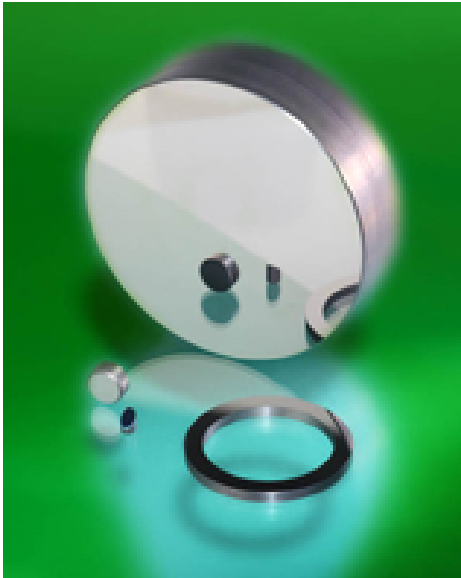


SiC (シリコンカーバイド) 基板研磨



Silicon Carbide Polishing

Silicon Carbide is increasingly being used in the optics industry to replace components previously manufactured out of Beryllium. The material offers a viable alternative with light weight, high specific stiffness, high thermal conductivity and excellent dimensional stability.

Gooch & Housego (from formerly General Optics) has developed a great deal of expertise in polishing silicon carbide (SiC) mirrors. We can polish CVD SiC and lightweighted versions of this material. Our manufacturing facility will polish customer supplied substrates or we will be pleased to source the substrates and provide completed polished mirrors. We

also are able to offer SiC cladding using our IBS coating chambers to ensure the finest possible final surface finish. Finally, we can deposit a variety of optical coatings on the finished mirror as desired. Typical achievable specifications for our SiC polished components are as follows:

Typical Specifications	
Sizes	Up to 20" Diameter
Thickness	1mm or greater
Surface Figure	Up to 1/50 Wave on smaller sizes
Surface Roughness	Better than 0.7 Å RMS
CVD SiC Cladding	Up to 10um thick
Optical Coatings	Various reflective coatings available

Please send us your drawings and specifications for SiC components and we will be pleased to provide a quotation. Gooch & Housego (from formerly General Optics) is a premier supplier of high volume, high quality, ultraprecision components. Please see details on our build to print services, our quality programs, and our OEM Odyssey plan.

