

Phase Retarder 10.6μm

UCS_Si_22

Productnumber: 1Si000004

This coating, when applied onto Silicon will convert linear polarisation into circular polarisation when placed in the beam path at the azimuth angle. Circular polarisation creates equal amounts of 's' and 'p' polarisation. This mirror is usually required when cutting difficult materials and eliminates kerf variations. It can be used in lasers up to 5kW.



Spectral - additional

Reflection (Average)	>98% @ 45° AOI
Absorption	<1.5%
Phase Retardation	90° ± 6°

Environmental Properties

Adhesion	MIL-C-48497A, 08/09/1980, para 4.5.3.1
Adhesion Remark	Tape Test
Humidity	MIL-C-48497A, 08/09/1980, para 4.5.3.2
Humidity Remark	24Hrs, 49°C, 95-100% relative humidity
Abrasion	MIL-C-48497A, 08/09/1980, para 4.5.3.3
Abrasion Remark	Moderate, 50 strokes with a cheesecloth

Sizes

Up to 275mm diameter