

SupermaxR 10.6μm

UCS_Si_21

Productnumber: 1Si000001

Deposited onto silicon, this coating offers high reflectivity and low absorption for CO₂ lasers up to 5kW. It is an extremely rugged coating and can withstand regular cleaning. It is intended for use within the laser cavity or externally for laser beam guidance.

Supermax R can be optimised for 0° or 45° AOI. A dual band version is available to enhance HeNe laser wavelengths.



Spectral - additional

Reflection (Average)	>99.8% s-pol, >99.7% p-pol @ 45° AOI
Absorption	<0.2%
Phase Shift	<±2° from zero @ 45° AOI

Environmental Properties

Adhesion	MIL-C-48497A, 08/09/1980, para 4.5.3.2
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 4.5.5.1
Abrasion Remark	Severe, 20 strokes Eraser

Sizes

Up to 275mm diameter

