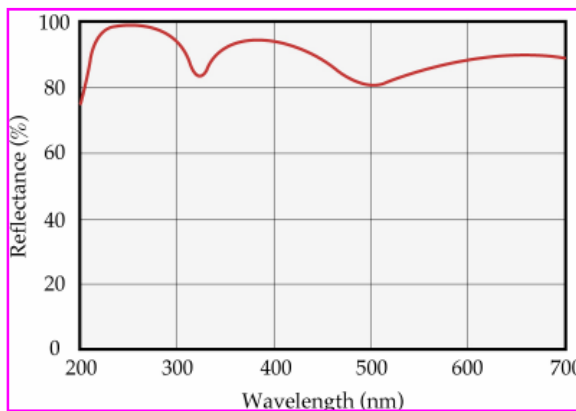


UV Enhanced Aluminium Mirrors

Aluminium coatings make excellent broadband reflectors with a bandwidth extending from 200 nm to the near IR. For use in the ultra-violet, Aluminium may be enhanced by superimposing a multilayer dielectric coating. This provides a higher reflectance at short wavelengths as well as



protection for the soft metallic film.

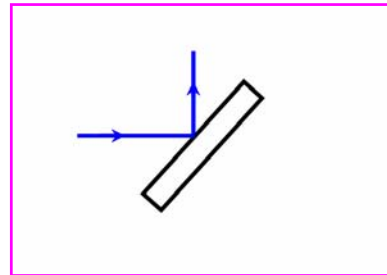
The enhancement may be chosen to peak at a particular wavelength in the UV, such as an excimer laser line for example. The mirrors may also be optimised either for normal or 45° angle of incidence.

The average reflectance of these enhanced aluminium mirrors is at least 95% at the peak enhancement wavelength with an average reflectance greater than 90% between 200 and 400 nm:

The substrate material used is usually



UV Fused Silica and unless otherwise requested



we will supply these mirrors on $\lambda/10$ polished flats with a surface quality of 10/5 or better.

UV Enhanced Aluminium mirrors are available in diameters of 10.0, 12.7, 19.1, 20.0, 25.4, 30.0, 38.1 or 50.8 mm or any custom size.

Peak enhancement wavelengths may be selected from 193, 248, 308, 352 nm

Substrate Material:	UVFS
Surface flatness:	$\lambda/10$ @ 633 nm
Surface quality:	10/5
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	+ 0.25 mm
Reflectance (λ_e):	$R_{\text{unp}} \geq 95\%$
Clear aperture:	> 85% of diameter
Durability:	ML-C-675

To request a quote or to order, please specify:

Quantity — Diameter — Enhancement Wavelength

Optarius

PO Box 2271
Malmesbury SN16 9FA
United Kingdom

Optics for the Ultra-Violet

Phone: +44 1666 575185
Fax: +44 1666 577424
Email: optarius@optarius.com
Web: www.optarius.com

For a quotation — please phone, fax or email us with details of your requirements.