



## Mirror Coatings: Protected Silver

**Protected Silver** mirror coating offers excellent reflectivity in the visible and near IR, approximately 99%R from 500 - 5um wavelength. The protective outer layer reduces Silver's tendency to tarnish and improves resistance to scratching whilst cleaning. This coating also withstands high temperatures and has a long shelf-life.

Silver coatings are especially useful in the 750nm - 1um region where Aluminium coatings absorb. Silver does have poor reflectivity in the UV though.

This coating can be deposited onto our Copper or Aluminium mirror substrates. These have been Electroless Nickel plated and superpolished for extreme surface smoothness and scatter reduction. Choose this coating for visible and near infra red multispectral applications such as spectroscopy, imaging, medical & scientific instrumentation, visual alignment and telecoms.

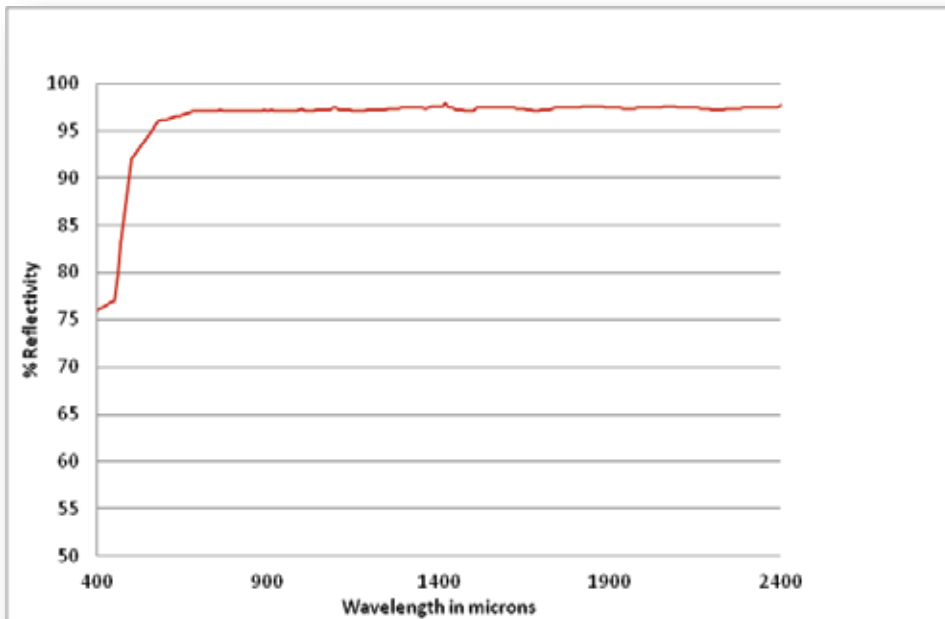
Protected Silver coated mirrors can be manufactured with mounting features built-in such as tapped holes and flanges, to reduce manufacturing costs and simplify replacement.

### Reflectivity

Protected Silver coatings provide excellent reflectivity in the visible and infrared:

>98% @ 0.5 - 0.8 microns

>98% @ 2 - 10 microns



*Protected Silver Coating Reflectivity vs Wavelength*



### How to contact us:

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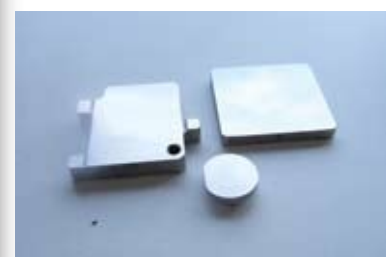
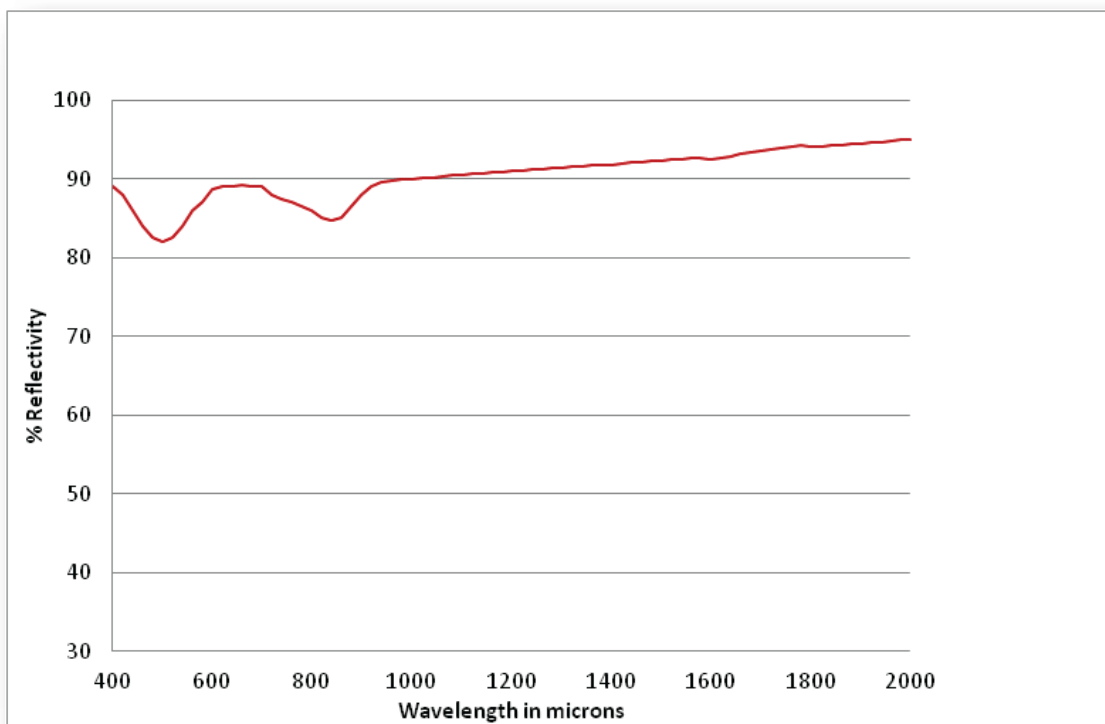
## Mirror Coatings: Protected Aluminium

Protected Aluminium mirror coating offers excellent reflectivity in the UV and visible,  $>85\%R$  from 400 - 700nm wavelength. The protective over-layer improves resistance to scratching and improves durability whilst cleaning. Above 700nm wavelength, Gold or Silver coatings should be used.

This coating can be deposited onto our Copper or Aluminium mirror substrates. The substrates are Electroless Nickel plated and superpolished for extreme surface smoothness and scatter reduction. Polish quality is an important feature at shorter wavelengths. Diamond machined mirrors will have a level of scatter and diffraction from surface artefacts that is often not acceptable.

Choose this coating for visible and near UV multispectral applications such as spectroscopy, microscopy, imaging, medical & scientific instrumentation, or where electrical discharges generate destructive UV radiation.

Protected Aluminium coated mirrors can be manufactured with mounting features built-in, such as tapped holes and flanges. This reduces OEM's manufacturing costs, and can simplify replacement.



**Whatever your requirements, contact us for help, information & prices:**

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