

TECHNICAL INFORMATION

Metal Coatings

Data Sheet 204

In addition to the aluminium front surface mirrors as described sheets 201 and 217, TMF can offer many other metals for the generation of front and back surface reflectors. They include gold, copper, chrome and various nickel/chrome alloys.

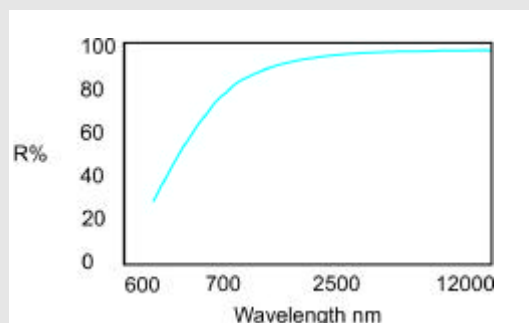
The choice of reflector depends on several factors such as:-

- Operational wavelength band.
- Reflectivity.
- Environmental conditions.

Gold

An excellent I.R. reflector which can be used for both I.R. mirrors or thermal shielding. It can be applied to glass and most plastics with a suitable 'keying' layer precoat and a protective overcoat.

Reflectivity >96% 700 - 2500nm
 >98% 2500 - 12000nm



Silver

Our protected Silver mirrors exhibit good reflectivity over the visible and IR regions.

Reflectivity >95% 400-2500nm
 >97% 2500-12000nm

Chrome

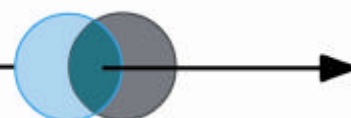
A more robust coating than aluminium with a neutral reflectance.

Reflectivity: >95% 400 - 2500nm
 >97% 2500 - 12000nm

We can also deposit Cerium, Copper, Nickel Chrome alloys, Inconel, Magnesium, Platinum, Palladium, Scandium, Tantalum, Titanium, Vanadium to name a few.

Please call for further details or if your requirements are not listed.

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Precision Optical Coating Engineers



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