TECHNICAL INFORMATION
Front Surface Mirrors
Data Sheet 201

TMF operates one of the largest production facilities in Europe for the manufacture of quality front surface mirrors onto glass or plastic materials, with a maximum sheet size of up to 1800 x 3000 mm.

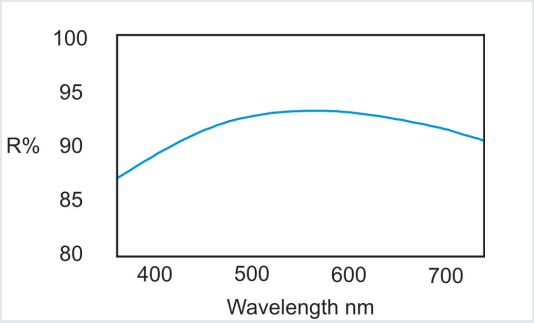
Large optical mirrors such as those used in telescopes and machine tools, weighing up to 1000kg can be coated, but the diameter is restricted to around 1500mm.

The mirrors are formed by the vacuum deposition of pure aluminium and protected with a transparent overcoat of silicon oxide or magnesium fluoride where good U.V. reflectivity is a requirement. The overcoating on most mirror designs complies with the adhesion and abrasion tests of MIL-M-13508, allowing them to be cleaned as required.

TMF offer three coating formats:-

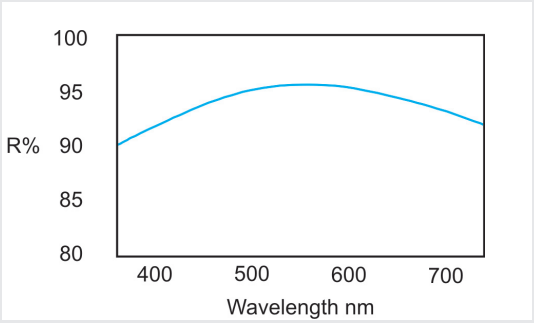
Protected Aluminium

Reflectivity: 87% Average
400-700nm
>92% for band
1-12 Micron



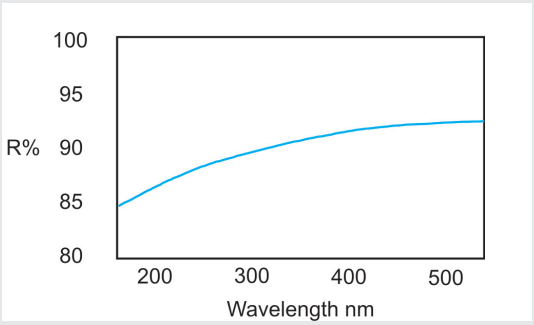
Enhanced Aluminium

Reflectivity: 93% Average
400-700nm
>92% for band



Enhanced U.V Aluminium

Reflectivity: 88% Average
200-500nm



For alternative metal mirror types refer to Data Sheet 204.

Applications:-

- Rear projection systems (Audiovisual presentation).
- Any optical system where secondary reflection is unacceptable, e.g. photocopiers, overhead projectors, etc.
- Astronomical mirrors and collimating mirrors.

Please phone to discuss the suitability of these coatings to meet your requirements.

thinmetalfilms ltd.
Precision Optical Coating Engineers

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