

TECHNICAL INFORMATION

Anti Reflection Coatings

Data Sheet 202

Single or Multilayer AR Coatings

All our anti-reflections coatings can be centred at any wavelength between 350nm and 1550nm and have an excellent adhesion and abrasion resistance. They also withstand high humidity, salt spray, acids, etc. and have proven high damage thresholds when used in laser systems.

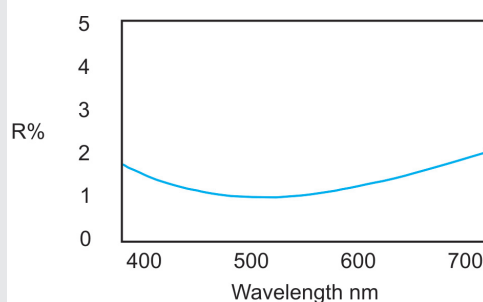
They can be applied to a variety of substrates ranging in size up to about 1.5m for single layer coatings and up to 0.4m dia for multi layers. (See Data Sheet 211 for details of anti-reflection coatings on fibre optics).

The curves on the graphs below indicate measured performance of our anti-reflection coatings for a single glass surface with a refractive index of 1.52.

The applications in both military and civil equipments for these coatings are too numerous to list. However, TMF has gathered much experience in different applications and would be pleased to discuss your particular requirements.

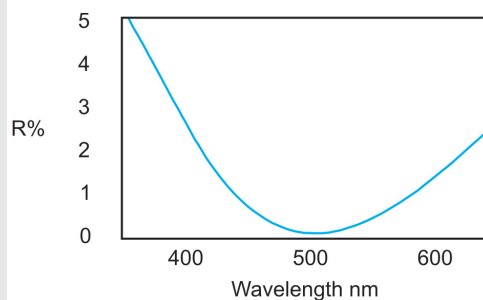
Broad band Single Layer

Reflectivity: 1.4% per surface
Wavelength Minima can be selected from 350-2200nm
Specifications: Meets requirements of MIL-C-675C FVRDE 2024



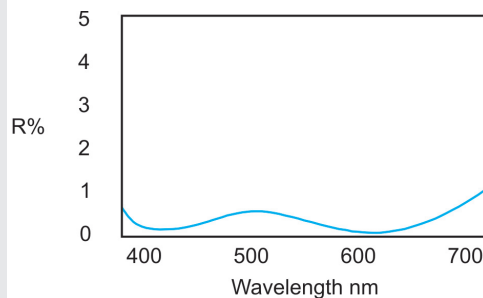
Narrow band Multi-Layer "V"

Reflectivity at design wavelength: 0.25% Nominal
Useable angle of incidence: +/-15 Degrees
Wavelength Band: 350-1600nm
Specifications: Meets environmental requirements of BS G211/MIL-C-14806



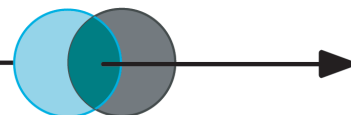
Broadband Multi-Layer "W"

Reflectivity: <0.5% 430-675nm
Wavelength Band: 350-1600/700-1100nm
Specifications: Meets requirements of BS G211/MIL-C-14806



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