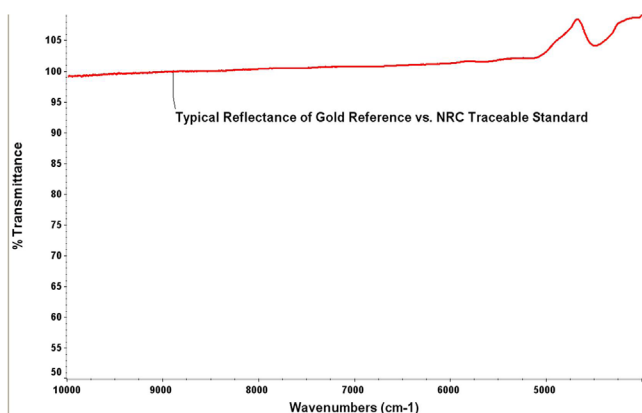




Near-Infrared and UV-Visible Diffuse Reflectance Standards

NIR and UV-Vis Diffuse Reflectance Standards

In order to measure reflectance with UV-visible or near-infrared instruments, or hyperspectral cameras, the instruments need to be calibrated with materials that have the highest possible reflectance. Diffuse gold 1-inch and 1.75-inch diameter references could be used in conjunction with the same size Middleton Research wavelength standards.



Measured reflectivity of diffuse gold reference standards is optimal to calibrate other reflectance measurements.

High reflectivity PTFE is an industry standard. Middleton Research produces PTFE reflective materials that are fully comparable with the best available reflectance standards in both the near-infrared and ultraviolet-visible regions. They can be manufactured in different shapes and sizes to best fit your needs. The standards are certified and shipped with a chart of the reflectance factor relative to a traceable industry standard at incremental wavelengths.

Both gold and PTFE standards are measured against a National Research Council of Canada traceable calibrated sintered PTFE plaque standard to ensure the controlled reflectivity. The customer is provided with the reflectance spectra for the future reference.



Specifications and Ordering Information

MRC-910-W38	Diffuse PTFE Reference (recommended for UV-Visible and Near-Infrared wavelength ranges) Complete with Wood case and Certification
MRC-910-G25	Diffuse Gold Reference (recommended for Near-Infrared and Mid-Infrared wavelength ranges) 1-inch diameter high reflectivity diffuse scattering gold Mounted in a 2-inch diameter holder without window
MRC-910-GW	Diffuse Gold Reference (recommended for Near-Infrared and Mid-Infrared wavelength ranges) Sealed in 2 inch diameter holder with optical window
MRC-910-G40	Diffuse Gold Reference (recommended for Near-Infrared and Mid-Infrared wavelength ranges) 1.7-inch diameter high reflectivity diffuse scattering gold Mounted in a 2.25-inch diameter holder without window
MRC-910-1920x+Gold	Reflectance Kit 1920x Extended Range Near-Infrared Wavelength Standard, 2" diameter plus 1" Diffuse Gold Reference