



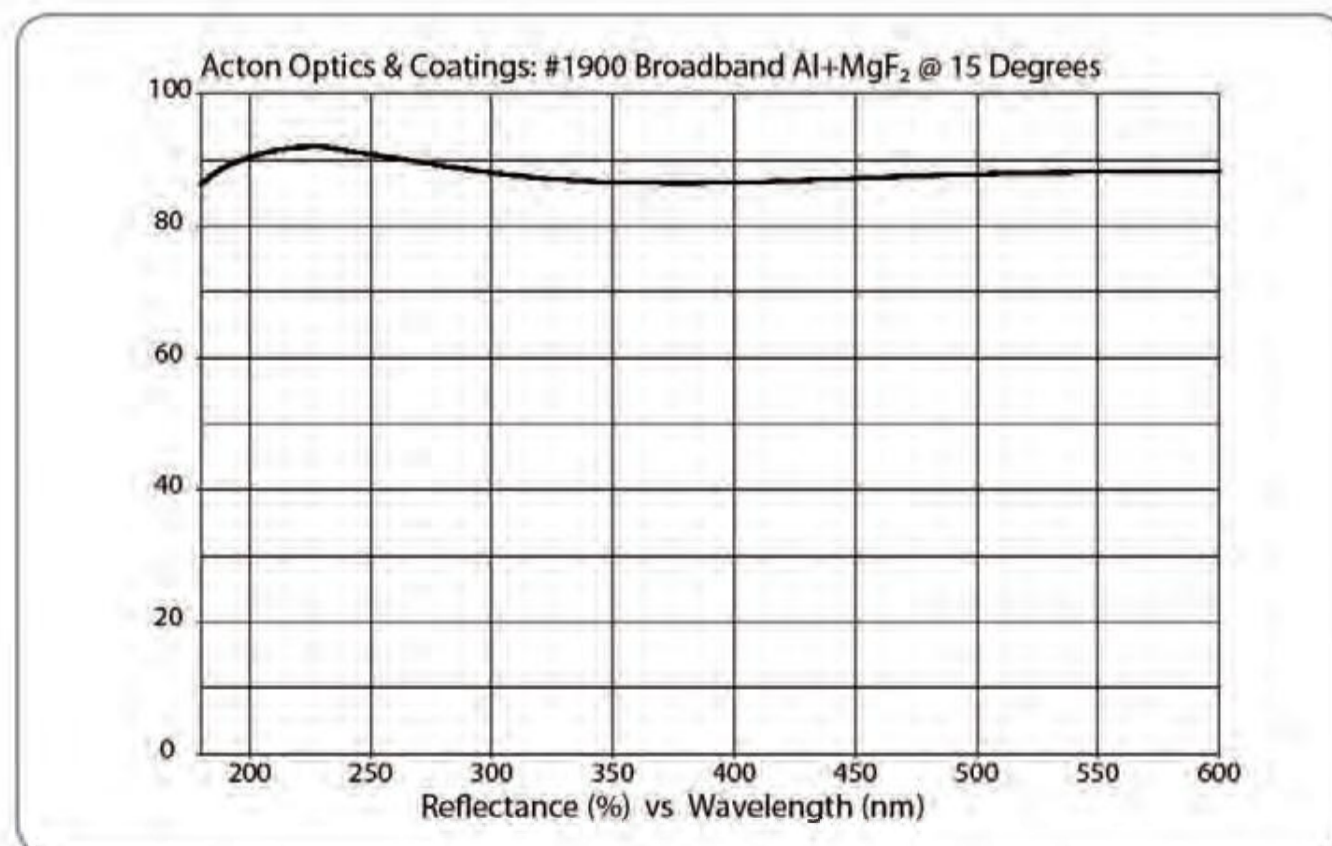
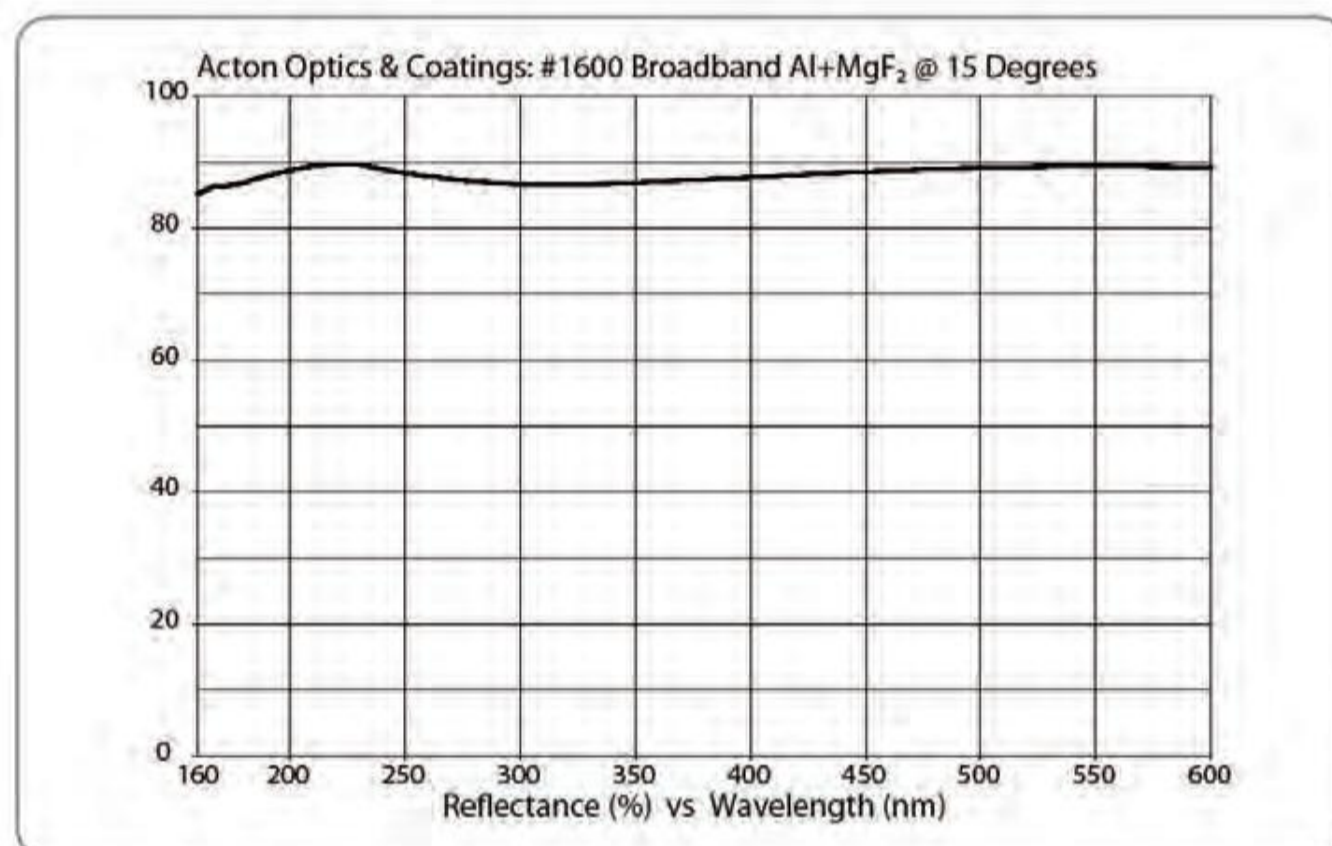
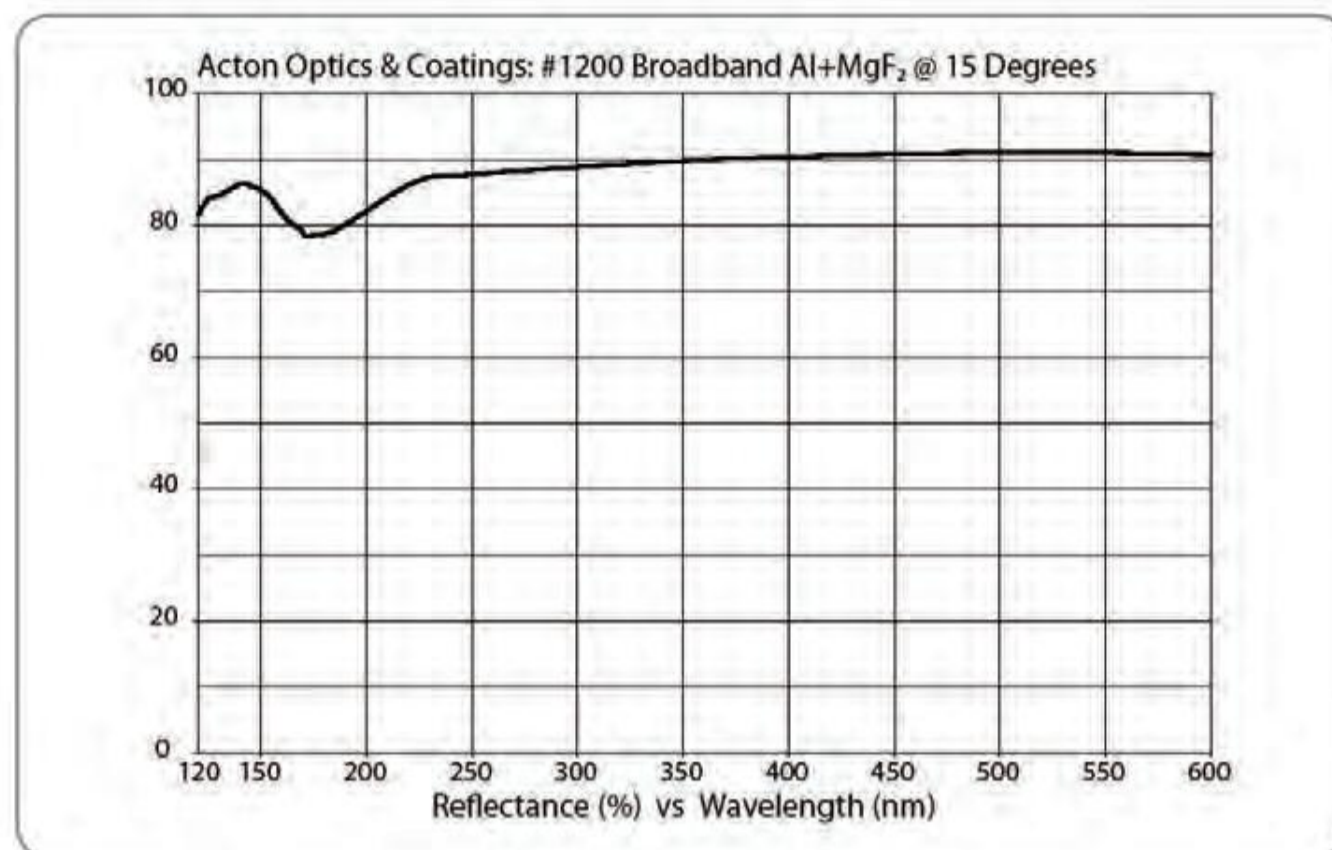
Broadband Al+MgF₂

120-190nm Coatings

For over four decades, Acton Al+MgF₂ high efficiency coatings have set the standard for broadband UV and VUV reflectance. These coatings are designed to offer industry leading reflectance down to 120nm, with excellent broadband reflectance throughout the visible and near infrared. Coatings are optimized for reflectance at 120nm, 160nm and 190nm for increased light throughput in your application. Each coating lot is measured for reflectance properties to ensure excellent performance of every mirror supplied.

Applications: DUV Spectrophotometers, Ellipsometry, VUV/UV-based Analytical Instrumentation, ICP Spectrometers, Space Applications

Coatings can be applied to Acton standard substrates (pgs: 32-33), custom substrates and customer supplied material (CSM). Please contact Acton Optics & Coatings for details.



Part Number	Peak Wavelength	Reflectance @ 15 Degrees
#1200	120nm	≥ 78%
#1600	160nm	≥ 84%
#1900	190nm	≥ 87%



Broadband Al+MgF₂

Standard Broadband Mirrors



Peak Wavelength	Average %R (peak wavelength to 600nm)	Part Number	Diameter	Thickness
120nm	85%	H1200-.5D-MB	0.500" (12.7mm)	0.250" (6.35mm)
120nm	85%	H1200-1D-MB	1.000" (25.4mm)	0.250" (6.35mm)
120nm	85%	H1200-1.5D-MB	1.500" (38mm)	0.250" (6.35mm)
120nm	85%	H1200-2D-MB	2.000" (50.8mm)	0.375" (9.53mm)
160nm	87%	H1600-.5D-MB	0.500" (12.7mm)	0.250" (6.35mm)
160nm	87%	H1600-1D-MB	1.000" (25.4mm)	0.250" (6.35mm)
160nm	87%	H1600-1.5D-MB	1.500" (38mm)	0.250" (6.35mm)
160nm	87%	H1600-2D-MB	2.000" (50.8mm)	0.375" (9.53mm)
190nm	87%	H1900-.5D-MB	0.500" (12.7mm)	0.250" (6.35mm)
190nm	87%	H1900-1D-MB	1.000" (25.4mm)	0.250" (6.35mm)
190nm	87%	H1900-1.5D-MB	1.500" (38mm)	0.250" (6.35mm)
190nm	87%	H1900-2D-MB	2.000" (50.8mm)	0.375" (9.53mm)

#1900 Standard 0-11,000nm at 15 Degrees

#1900 Standard 160-1100nm at 45 Degrees

