

II-VI

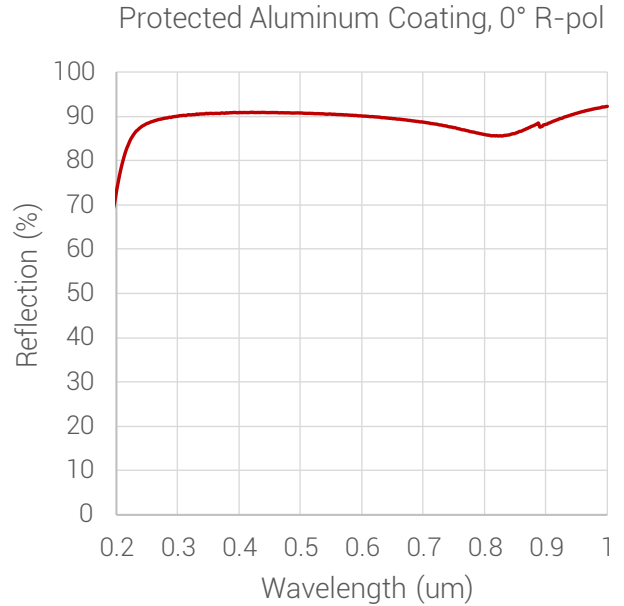
Low-Roughness Aluminum Mirrors

II-VI manufactures low-roughness aluminum mirrors in various shapes and surface profiles including off-axis parabolas and freeform mirrors. Combined with II-VI's high-reflectivity dielectric coatings, these mirrors minimize scatter and maximize reflection. This makes them an ideal solution for UV-visible and infrared spectroscopy, LiDAR scanning, and many other applications.

Low-Roughness Aluminum Mirrors

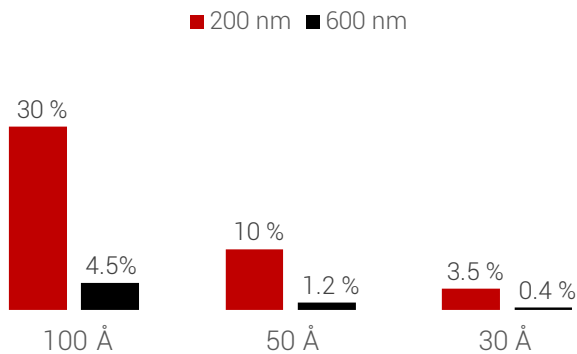
Features

- 80/50 Surface Quality
- Protected Aluminum Reflectivity: > 86 % average from 190-690 nm
- Figure to < 0.25 λ per inch at 632.8nm
- Available for spectroscopy, LiDAR, ADAS, 3D printing, barcode reading/scanning and lightweight applications

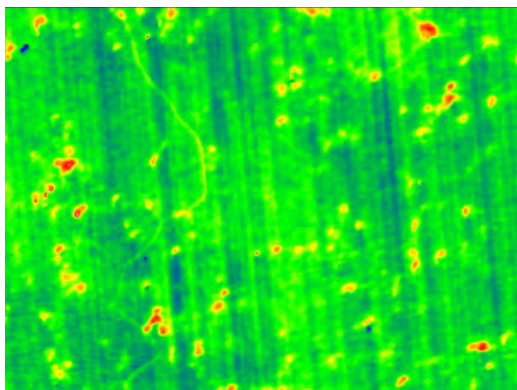


Roughness

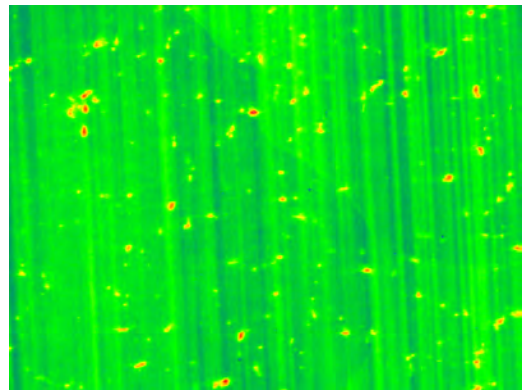
Scatter vs. RMS Roughness



The RMS roughness of the mirror surface creates scatter, reducing optical performance. Lower roughness can therefore improve part performance, especially at shorter wavelengths. With II-VI's proprietary manufacturing process, a consistent surface roughness of less than 50 angstroms RMS, without any spike or spatial filters, can be expected. Surface roughness as low as 30 angstroms RMS is also achievable upon request.



< 50 Å RMS Roughness (no filter)



< 30 Å RMS Roughness (no filter)