

# Coatings

For appropriate coating, please add the number of the chosen coating to the required optical component catalogue number.

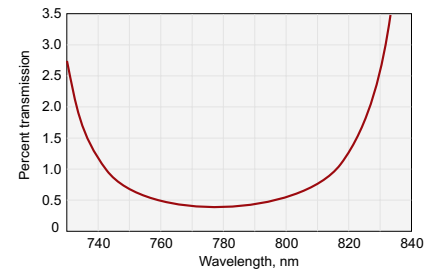
These multilayer coatings are stacks intended to achieve the highest possible reflectivity at specific laser line wavelengths at normal or 45 degrees incidence. Laser line high reflectivity coatings are intended for external beam manipulation applications where even slight losses may be intolerable.

## HIGH REFLECTIVITY COATINGS

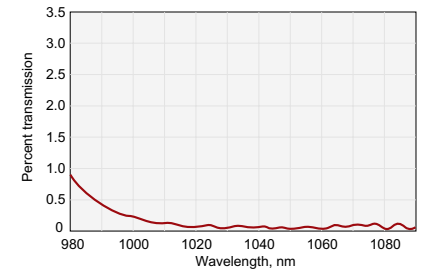
### LASER LINE COATINGS

| Wavelength, nm | AOI = 0°        |                | AOI = 45°       |                | Recommended substrate | Damage threshold, J/cm <sup>2</sup> in 10 ns |
|----------------|-----------------|----------------|-----------------|----------------|-----------------------|--|
|                | Reflectivity, % | Coating number | Reflectivity, % | Coating number |                       |  |
| 226            | >99             | 1007-i0        | >99             | 1007-i45       | UV FS                 | 1  |
| 248            | >99             | 1009-i0        | >99             | 1009-i45       | UV FS                 | 1.5  |
| 266            | >99.5           | 1011-i0        | >99             | 1011-i45       | UV FS                 | 1.5  |
| 308            | >99.5           | 1013-i0        | >99.2           | 1013-i45       | UV FS                 | 1.5  |
| 325            | >99.5           | 1015-i0        | >99.2           | 1015-i45       | UV FS                 | 1.5  |
| 337            | >99.7           | 1017-i0        | >99.5           | 1017-i45       | UV FS                 | 1.5  |
| 355            | >99.7           | 1019-i0        | >99.5           | 1019-i45       | UV FS                 | 1.5  |
| 400            | >99.7           | 1021-i0        | >99.5           | 1021-i45       | UV FS                 | 1.5  |
| 473            | >99.7           | 1023-i0        | >99.5           | 1023-i45       | UV FS, BK7            | 1.5  |
| 488-515        | >99.7           | 1024-i0        | >99.5           | 1024-i45       | UV FS, BK7            | 1.5  |
| 532            | >99.7           | 1025-i0        | >99.5           | 1025-i45       | UV FS, BK7            | 5  |
| 589            | >99.7           | 1027-i0        | >99.5           | 1027-i45       | UV FS, BK7            | 5  |
| 616            | >99.7           | 1029-i0        | >99.5           | 1029-i45       | UV FS, BK7            | 5  |
| 633            | >99.7           | 1030-i0        | >99.5           | 1030-i45       | UV FS, BK7            | 5  |
| 780            | >99.7           | 1031-i0        | >99.5           | 1031-i45       | UV FS, BK7            | 5  |
| 800            | >99.7           | 1032-i0        | >99.5           | 1032-i45       | UV FS, BK7            | 5  |
| 830            | >99.7           | 1033-i0        | >99.5           | 1033-i45       | UV FS, BK7            | 5  |
| 852            | >99.7           | 1034-i0        | >99.5           | 1034-i45       | UV FS, BK7            | 5  |
| 946            | >99.7           | 1035-i0        | >99.5           | 1035-i45       | UV FS, BK7            | 5  |
| 1064           | >99.7           | 1037-i0        | >99.5           | 1037-i45       | UV FS, BK7            | 5  |
| 1320           | >99.7           | 1039-i0        | >99.5           | 1039-i45       | UV FS, BK7            | 1.5  |
| 1550           | >99.7           | 1045-i0        | >99.5           | 1045-i45       | UV FS, BK7            | 1.5  |
| 2000           | >99             | 1047-i0        | >99             | 1047-i45       | UV FS, Sapphire       | 1.5  |
| 2100           | >99             | 1049-i0        | >99             | 1049-i45       | UV FS, Sapphire       | 1.5  |

Contact us for other wavelengths and AOI's values.



1031. HR>99.5% @ 780 nm, AOI = 45°.

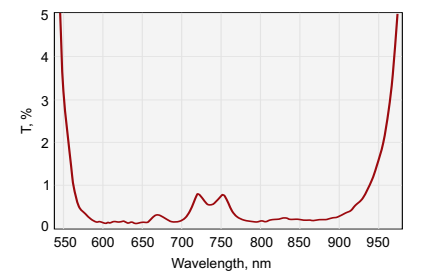


1037. HR>99.8% @ 1064 nm, AOI = 0°.

### BROADBAND COATINGS

| Wavelength, nm | AOI = 0°        |                | AOI = 45°       |                | Recommended substrate | Damage threshold, J/cm <sup>2</sup> in 10 ns |
|----------------|-----------------|----------------|-----------------|----------------|-----------------------|--|
|                | Reflectivity, % | Coating number | Reflectivity, % | Coating number |                       |  |
| 220-250        | >99             | 1106-i0        | >99             | 1106-i45       | UV FS                 | 1  |
| 260-340        | >99             | 1110-i0        | >99             | 1110-i45       | UV FS                 | 1  |
| 350-450        | >99             | 1114-i0        | >99             | 1114-i45       | UV FS                 | 1  |
| 420-680        | >99             | 1116-i0        | >99             | 1116-i45       | UV FS, BK7            | 1  |
| 600-900        | >99             | 1130-i0        | >99             | 1130-i45       | UV FS, BK7            | 1  |
| 720-880        | >99             | 1132-i0        | >99             | 1132-i45       | UV FS, BK7            | 1  |
| 760-840        | >99             | 1133-i0        | >99             | 1133-i45       | UV FS, BK7            | 1  |
| 900-1100       | >99             | 1142-i0        | >99             | 1142-i45       | UV FS, BK7            | 1.5  |
| 1100-1400      | >99             | 1144-i0        | >99             | 1144-i45       | UV FS, BK7            | 1.5  |

Contact us for other wavelengths and AOI's values.



1130. HR>99% @ 600-900nm, AOI = 0°.