

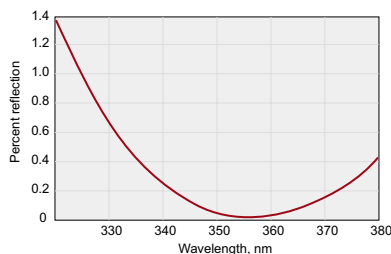
ANTI-REFLECTION COATINGS

Laser Line Anti-Reflection Coatings

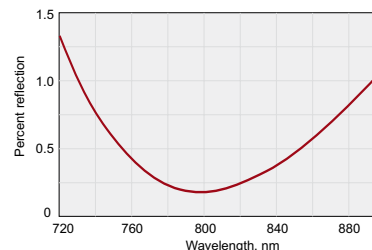
These multilayer anti-reflection coatings are designed for reducing the reflectivity of a component to near-zero for one very specific wavelength. Therefore, valuable laser energy is efficiently transferred through complex optical systems rather than being lost to glare and scatter. Our AR coatings are intended for use at normal incidence, and when used in this way will achieve maximum efficiency transmission.

Coating number		Wavelength, nm	Reflectivity, %		Damage threshold, J/cm ² in 10 ns	Price, EUR Ø25 / Ø50
AOI = 0°	AOI = 45°		AOI = 0°	AOI = 45°		
3005-i0	3005-i45	193	< 1.0	< 2.0	1	60 / 71
3007-i0	3007-i45	248	< 0.8	< 1.5	1.5	50 / 61
3009-i0	3009-i45	266	< 0.4	< 1.0	1.5	45 / 56
3011-i0	3011-i45	308	< 0.3	< 0.6	1.5	45 / 56
3015-i0	3015-i45	351-355	< 0.25	< 0.5	2	39 / 50
3017-i0	3017-i45	400	< 0.25	< 0.5	2	34 / 45
3021-i0	3021-i45	488-514	< 0.3	< 0.5	2	34 / 45
3025-i0	3025-i45	532	< 0.2	< 0.5	4	34 / 45
3027-i0	3027-i45	633-650	< 0.25	< 0.5	4	34 / 45
3031-i0	3031-i45	780	< 0.2	< 0.5	5	34 / 45
3033-i0	3033-i45	800	< 0.2	< 0.5	5	34 / 45
3035-i0	3035-i45	850	< 0.2	< 0.5	5	34 / 45
3037-i0	3037-i45	1064	< 0.2	< 0.5	5	34 / 45
3041-i0	3041-i45	1320	< 0.3	< 0.5	5	34 / 45
3045-i0	3045-i45	1547	< 0.5	< 1.0	4	34 / 45

Contact us for other wavelengths and AOI's values.



3015. R<0.25% @ 351-355 nm, AOI = 0°.

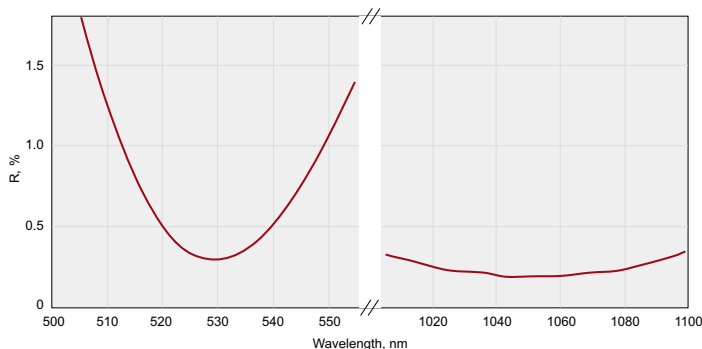


3033. R<0.2% @ 800 nm, AOI = 0°.

Dual Band Anti-Reflection Coatings

Coating number		Wavelength, nm	Reflectivity, %		Damage threshold, J/cm ² in 10 ns	Price, EUR Ø25 / Ø50
AOI = 0°	AOI = 45°		AOI = 0°	AOI = 45°		
3106-i0	3106-i45	266 + 532	< 0.5	< 1.0	1.5	56 / 67
3110-i0	3110-i45	355 + 532	< 0.5	< 1.0	2	50 / 61
3114-i0	3114-i45	355 + 1064	< 0.5	< 1.0	2	50 / 61
3118-i0	3118-i45	400 + 800	< 0.3	< 1.0	3	50 / 61
3121-i0	3121-i45	515 + 1030	< 0.3	< 1.0	4	45 / 56
3122-i0	3122-i45	532 + 1064	< 0.3	< 1.0	4	45 / 56
3126-i0	3126-i45	670 + 1064	< 0.3	< 1.0	4	45 / 56
3127-i0	3127-i45	808 + 1064	< 0.3	< 1.0	4	45 / 56
3130-i0	3130-i45	1064 + 1320	< 0.3	< 1.0	4	45 / 56
3134-i0	3134-i45	1064 + 1570	< 0.3	< 1.0	3	49 / 59

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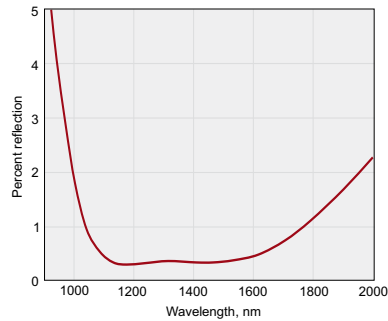


3122. R<0.25% @ 532+1064 nm, AOI = 0°.

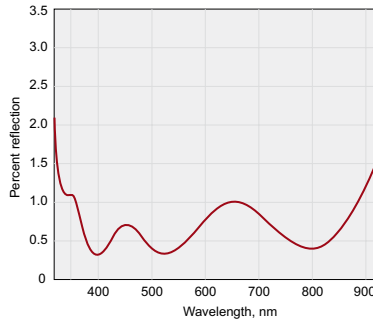
Broadband Anti-Reflection Coatings

Coating number		Wavelength, nm	Reflectivity, %		Damage threshold, J/cm ² in 10 ns	Price, EUR Ø25 / Ø50
AOI = 0°	AOI = 45°		AOI = 0°	AOI = 45°		
3205-i0	3205-i45	210-400	<1.5	<2.5	1.5	67 / 78
3207-i0	3207-i45	250-350	<1.2	<2.5	1.5	67 / 78
3209-i0	3209-i45	300-400	<1.0	<2.0	1.5	61 / 74
3211-i0	3211-i45	350-500	<0.8	<1.6	2.0	61 / 74
3213-i0	3213-i45	350-900	<1.5	<3.0	2.0	67 / 78
3215-i0	3215-i45	400-550	<0.4	<0.8	2.5	56 / 67
3217-i0	3217-i45	400-700	<0.9	<1.8	3.0	56 / 67
3219-i0	3219-i45	420-680	<0.5	<1.0	3.0	56 / 67
3221-i0	3221-i45	450-750	<0.5	<1.0	3.0	56 / 67
3223-i0	3223-i45	500-800	<0.6	<1.2	3.0	61 / 72
3224-i0	3224-i45	500-1000	<1.5	<3.0	3.0	61 / 72
3225-i0	3225-i45	600-900	<0.5	<1.0	3.0	57 / 68
3227-i0	3227-i45	750-900	<0.5	<1.0	3.0	57 / 68
3229-i0	3229-i45	800-1200	<0.7	<1.4	2.5	61 / 72
3231-i0	3231-i45	1000-1400	<0.7	<1.4	2.0	63 / 74
3232-i0	3232-i45	1060-1700	<1.0	<1.5	2.0	76 / 89
3233-i0	3233-i45	1300-1700	<0.7	<1.4	2.0	63 / 74
3235-i0	3235-i45	1500-2000	<0.7	<1.4	1.5	65 / 76

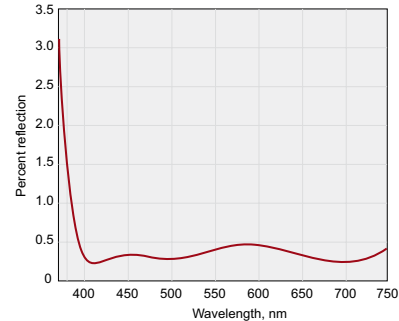
Contact us for other wavelengths and AOI's values.



3232-i0. R<1% @ 1060-1700 nm, AOI=0°



3213. R<1.5% @ 350-900 nm, AOI = 0°.



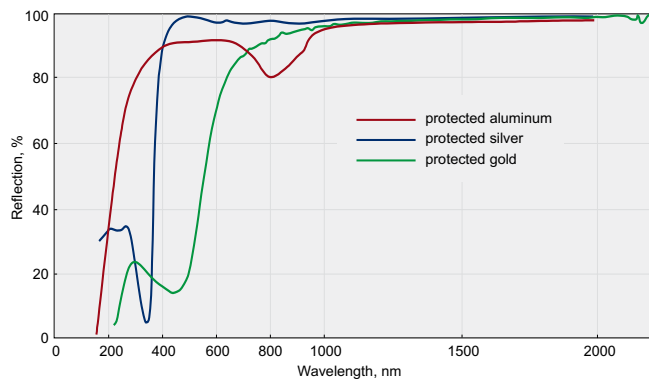
3217. R<0.9% @ 400-700 nm, AOI = 0°.

METALLIC COATINGS

- Protected gold
- Protected aluminium
- Protected silver
- Enhanced aluminium

Protected metallic coatings provide a moderate level of reflection over a very broad spectral range and are widely used as mirrors. These coatings are protected by a thin layer of dielectric material in order to make them durable. Enhanced metallic coatings provide greater reflection across the operating bandwidth. These coatings are enhanced by adding a multilayer dielectric stack.

Metal coatings modify the state of polarization of an incident beam of light and are therefore inappropriate for most polarization sensitive applications.



Wavelength, nm	Average reflection, %	Type	Laser Induced Damage Threshold at 1064 nm, 50 Hz, 11 nsec, J/cm ²	Coating number	Price, EUR Ø25 / Ø50
250-350	>88	UV enhanced aluminium	0.25	0005	34 / 52
450-650	>91	VIS enhanced aluminium	0.25	0010	25 / 40
300-IR	>86	Protected aluminium	0.25	0015	17 / 28
400-IR	>96	Protected silver	1.8	0025	56 / 76
900-IR	>98	Protected gold	1.0	0030	82 / 107

Please contact us for other wavelengths and AOI's.