

LASER REAR MIRRORS

High reflectivity ($R > 99.8\%$) dielectric coatings with high laser damage threshold are applied on laser rear mirrors. UV FS substrates are recommended for high power laser applications.

Back side can be AR coated to avoid back reflection from second surface on request.

COATING

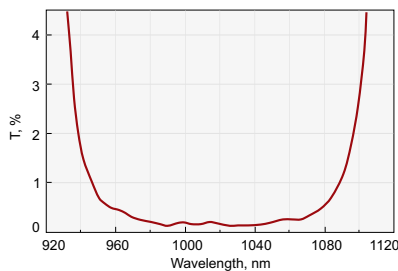
Technology	Electron beam multilayer dielectric
Adhesion and Durability	Per MIL-C-675A. Insoluble in lab solvents
Clear Aperture	Exceeds central 85% of diameter
Angle of Incidence	0 – 8° (normal)
Coating	Hard dielectric high reflection: R>99.7% at 800 nm and 1030 nm R>99% at 720 – 880 nm
Laser Damage Threshold	>100 mJ/cm ² , 50 fsec pulse, 800 nm typical

SUBSTRATE

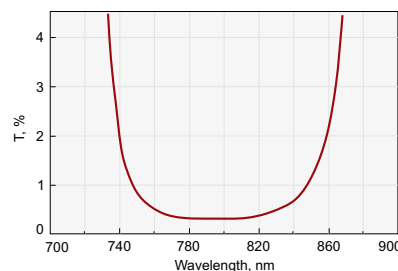
Material	UV grade Fused Silica or BK7 glass
S1 Surface Flatness	$\lambda/10$ at 633 nm
S1 Surface Quality	20 – 10 scratch & dig (MIL-PRF-13830B)
S2 Surface Quality	Commercial polish
Diameter Tolerance	+0.00 mm; -0.12 mm
Thickness Tolerance	± 0.25
Chamfer	0.3 mm at 45° typical

Wavelength, nm	Substrate type	Radius, mm	Substrate material BK7				Substrate material UVFS			
			Ø25.4×6 mm		Ø50.8×10 mm		Ø25.4×6 mm		Ø50.8×10 mm	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR	Catalogue number	Price, EUR	Catalogue number	Price, EUR
1030±30	Plano-plano	∞	032-1030-i0	75	035-1030-i0 *	110	042-1030-i0	90	045-1030-i0 *	169
1030±30	Plano-concave	-50	012-8005	99	015-8005	145	022-8005	119	025-8005	209
1030±30	Plano-concave	-100	012-8010	99	015-8010	145	022-8010	119	025-8010	209
1030±30	Plano-concave	-150	012-8015	99	015-8015	145	022-8015	119	025-8015	209
1030±30	Plano-concave	-200	012-8020	99	015-8020	145	022-8020	119	025-8020	209
1030±30	Plano-concave	-250	012-8025	99	015-8025	145	022-8025	119	025-8025	209
1030±30	Plano-concave	-500	012-8050	99	015-8050	145	022-8050	119	025-8050	209
1030±30	Plano-concave	-1000	012-8100	99	015-8100	145	022-8100	119	025-8100	209
1030±30	Plano-concave	-2000	012-8200	99	015-8200	145	022-8200	119	025-8200	209
1030±30	Plano-concave	-2500	012-8250	99	015-8250	145	022-8250	119	025-8250	209
1030±30	Plano-concave	-4000	012-8400	99	015-8400	145	022-8400	119	025-8400	209
1030±30	Plano-concave	-5000	012-8500	99	015-8500	145	022-8500	119	025-8500	209
1030±30	Plano-convex	+100	012-9010	103	015-9010	155	022-9010	123	025-9010	219
1030±30	Plano-convex	+200	012-9020	103	015-9020	155	022-9020	123	025-9020	219
1030±30	Plano-convex	+500	012-9050	103	015-9050	155	022-9050	123	025-9050	219
1030±30	Plano-convex	+1000	012-9100	103	015-9100	155	022-9100	123	025-9100	219
1030±30	Plano-convex	+2000	012-9200	103	015-9200	155	022-9200	123	025-9200	219
1030±30	Plano-convex	+4000	012-9400	103	015-9400	155	022-9400	123	025-9400	219

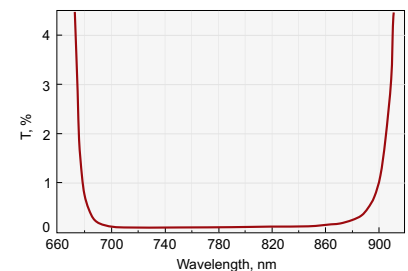
* Thickness of plano-plano rear mirrors of Ø50.8 is 8 mm.



HR>99.7% @ 1030±30 nm, AOI=0°



HR>99.7% @ 800±20 nm, AOI=0°



HR>99.0% @ 720 – 880 nm, AOI=0°

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			Catalogue number	Price, EUR	Catalogue number	Price, EUR	Catalogue number	Price, EUR	Catalogue number	Price, EUR
800±30	Plano-plano	-∞	032-0800-i0	85	035-0800-i0 *	133	042-0800-i0	97	045-0800-i0 *	181
800±30	Plano-concave	-50	062-8005	99	065-8005	145	082-8005	119	085-8005	209
800±30	Plano-concave	-100	062-8010	99	065-8010	145	082-8010	119	085-8010	209
800±30	Plano-concave	-150	062-8015	99	065-8015	145	082-8015	119	085-8015	209
800±30	Plano-concave	-200	062-8020	99	065-8020	145	082-8020	119	085-8020	209
800±30	Plano-concave	-250	062-8025	99	065-8025	145	082-8025	119	085-8025	209
800±30	Plano-concave	-500	062-8050	99	065-8050	145	082-8050	119	085-8050	209
800±30	Plano-concave	-1000	062-8100	99	065-8100	145	082-8100	119	085-8100	209
800±30	Plano-concave	-2000	062-8200	99	065-8200	145	082-8200	119	085-8200	209
800±30	Plano-concave	-2500	062-8250	99	065-8250	145	082-8250	119	085-8250	209
800±30	Plano-concave	-4000	062-8400	99	065-8400	145	082-8400	119	085-8400	209
800±30	Plano-concave	-5000	062-8500	99	065-8500	145	082-8500	119	085-8500	209
800±30	Plano-convex	+100	062-9010	103	065-9010	155	082-9010	123	085-9010	219
800±30	Plano-convex	+200	062-9020	103	065-9020	155	082-9020	123	085-9020	219
800±30	Plano-convex	+500	062-9050	103	065-9050	155	082-9050	123	085-9050	219
800±30	Plano-convex	+1000	062-9100	103	065-9100	155	082-9100	123	085-9100	219
800±30	Plano-convex	+2000	062-9200	103	065-9200	155	082-9200	123	085-9200	219
800±30	Plano-convex	+4000	062-9400	103	065-9400	155	082-9400	123	085-9400	219

* Thickness of plano-plano rear mirrors of Ø50.8 is 8 mm.

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			Ø25.4×6 mm		Ø50.8×10 mm		Ø25.4×6 mm		Ø50.8×10 mm	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR	Catalogue number	Price, EUR	Catalogue number	Price, EUR
720 – 880	Plano-plano	-∞	072-7288-i0	104	075-7288-i0 *	220	082-7288-i0	129	085-7288-i0 *	255
720 – 880	Plano-concave	-50	062-8005B	128	065-8005B	245	082-8005B	153	085-8005B	280
720 – 880	Plano-concave	-100	062-8010B	128	065-8010B	245	082-8010B	153	085-8010B	280
720 – 880	Plano-concave	-150	062-8015B	128	065-8015B	245	082-8015B	153	085-8015B	280
720 – 880	Plano-concave	-200	062-8020B	128	065-8020B	245	082-8020B	153	085-8020B	280
720 – 880	Plano-concave	-250	062-8025B	128	065-8025B	245	082-8025B	153	085-8025B	280
720 – 880	Plano-concave	-500	062-8050B	128	065-8050B	245	082-8050B	153	085-8050B	280
720 – 880	Plano-concave	-1000	062-8100B	128	065-8100B	245	082-8100B	153	085-8100B	280
720 – 880	Plano-concave	-2000	062-8200B	128	065-8200B	245	082-8200B	153	085-8200B	280
720 – 880	Plano-concave	-2500	062-8250B	128	065-8250B	245	082-8250B	153	085-8250B	280
720 – 880	Plano-concave	-3000	062-8300B	128	065-8300B	245	082-8300B	153	085-8300B	280
720 – 880	Plano-concave	-4000	062-8400B	128	065-8400B	245	082-8400B	153	085-8400B	280
720 – 880	Plano-concave	-5000	062-8500B	128	065-8500B	245	082-8500B	153	085-8500B	280
720 – 880	Plano-convex	+100	062-9010B	132	065-9010B	250	082-9010B	157	085-9010B	285
720 – 880	Plano-convex	+200	062-9020B	132	065-9020B	250	082-9020B	157	085-9020B	285
720 – 880	Plano-convex	+500	062-9050B	132	065-9050B	250	082-9050B	157	085-9050B	285
720 – 880	Plano-convex	+600	062-9060B	132	065-9060B	250	082-9060B	157	085-9060B	285
720 – 880	Plano-convex	+1000	062-9100B	132	065-9100B	250	082-9100B	157	085-9100B	285
720 – 880	Plano-convex	+1500	062-9150B	132	065-9150B	250	082-9150B	157	085-9150B	285
720 – 880	Plano-convex	+2000	062-9200B	132	065-9200B	250	082-9200B	157	085-9200B	285
720 – 880	Plano-convex	+4000	062-9400B	132	065-9400B	250	082-9400B	157	085-9400B	285

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RELATED PRODUCTS

Uncoated Curved Windows
See page 1.8

Kinematic Mirror Mount 840-0010
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