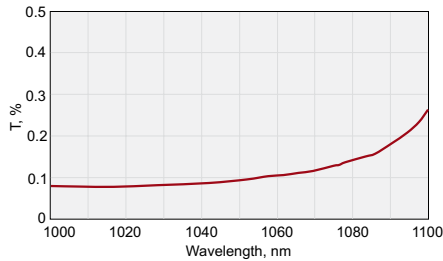


LASER REAR MIRRORS

High reflectivity ($R > 99.8\%$) coatings are applied on laser rear mirrors. The UV FS substrates are suggested for pulsed and CW high power fundamental Nd:YAG laser application.



$R > 99.8\%$ @ 1064 nm

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

COATING

Technology	Electron beam multilayer dielectric
Adhesion and Durability	Per MIL-C-675A. Insoluble in lab solvents
Clear Aperture	Exceeds central 85% of diameter
Damage Threshold:	
BK7	$> 2 \text{ J/cm}^2$, 8 nsec pulse, 1064 nm
UV FS	$> 5 \text{ J/cm}^2$, 8 nsec pulse, 1064 nm
Angle of Incidence	0°–8° (normal)
Reflectivity	$R > 99.8\%$

Wavelength, nm	Substrate type	Radius, mm	Substrate material	Code Ø25.4×6 mm	Price, EUR
1047–1064	Plano	∞	BK7	032-8000	75
1064	Plano-concave	-50	BK7	032-8005	89
1064	Plano-concave	-100	BK7	032-8010	89
1064	Plano-concave	-150	BK7	032-8015	89
1064	Plano-concave	-200	BK7	032-8020	89
1064	Plano-concave	-250	BK7	032-8025	89
1064	Plano-concave	-500	BK7	032-8050	89
1064	Plano-concave	-1000	BK7	032-8100	89
1064	Plano-concave	-2000	BK7	032-8200	89
1064	Plano-concave	-2500	BK7	032-8250	89
1064	Plano-concave	-4000	BK7	032-8400	89
1064	Plano-concave	-5000	BK7	032-8500	89
1047–1064	Plano	∞	UV FS	042-8000	102
1064	Plano-concave	-50	UV FS	042-8005	109
1064	Plano-concave	-100	UV FS	042-8010	109
1064	Plano-concave	-150	UV FS	042-8015	109
1064	Plano-concave	-200	UV FS	042-8020	109
1064	Plano-concave	-250	UV FS	042-8025	109
1064	Plano-concave	-500	UV FS	042-8050	109
1064	Plano-concave	-1000	UV FS	042-8100	109
1064	Plano-concave	-2000	UV FS	042-8200	109
1064	Plano-concave	-2500	UV FS	042-8250	109
1064	Plano-concave	-4000	UV FS	042-8400	109
1064	Plano-concave	-5000	UV FS	042-8500	109
1064	Plano-convex	+100	BK7	032-9010	93
1064	Plano-convex	+200	BK7	032-9020	93
1064	Plano-convex	+500	BK7	032-9050	93
1064	Plano-convex	+1000	BK7	032-9100	93
1064	Plano-convex	+2000	BK7	032-9200	93
1064	Plano-convex	+4000	BK7	032-9400	93
1064	Plano-convex	+100	UV FS	042-9010	113
1064	Plano-convex	+200	UV FS	042-9020	113
1064	Plano-convex	+500	UV FS	042-9050	113
1064	Plano-convex	+1000	UV FS	042-9100	113
1064	Plano-convex	+2000	UV FS	042-9200	113
1064	Plano-convex	+4000	UV FS	042-9400	113

RELATED PRODUCTS

Uncoated
Curved Windows
See page 1.7

Kinematic Mirror
Mount 840-0010
See page 8.58

