

Fused silica and quartz Substrates and Wafers



Click Here

valley design corp.

ISO 9001:2000 Certified

Santa Cruz, California
WEST: 831.420.0595
Shirley, Massachusetts
EAST: 978.425.3030

Lapping • Polishing • Dicing • Flat Optics • All Materials

Fused Silica Currently In Stock:

Available for Immediate Delivery

- Fused quartz, Z-cut quartz, IR and Excimer and other grade materials as well as custom sizes are available.
- Improved surface finish of 10/5 scratch/dig (< 7 angstroms) is also available.
- Tighter tolerances are available on all parameters. Please call for details.
- For non-priced items below, please call or [email](#) for a Quotation.

Typical Specifications for Stock Items:

- Corning 7980 0F UV Grade or equivalent. [Technical Data Sheet](#)
- Standard Surface Finish: Optically polished both sides $\leq 20/10$ scratch/dig
- Standard Tolerances: L x W: $\pm .004$ ", Thickness: $\pm .001$ ".
- Parallelism < 30 arc seconds
- Available Flatness of 1/4 wave
- Parts available with or without reference flats

ITEM #	GEOMETRY (")	GEOMETRY (mm)
FS-101	8.25_ dia. x .0394_ thk	209mm dia. x 1mm thk
FS-102	7.88_ dia. x .0787_ thk	200mm dia. x 2mm thk
FS-103	7.88_ dia. x .059_ thk	200mm dia. x 1.5mm thk
FS-104	7.88_ dia. x .0394_ thk	200mm dia. x 1mm thk
FS-105	7.88_ dia. x .0197_ thk	200mm dia. x .5mm thk
FS-106	7.25_ dia. x .150_ thk	184mm dia. x 3.81mm thk
FS-107	7.25_ dia. x .0787_ thk	184mm dia. x 2mm thk
FS-108	6.25_ dia. x .059_ thk	158.75mm dia. x 1.5mm thk
FS-109	6.125_ dia. x .0394_ thk	155.5mm dia. x 1mm thk
FS-110	6_ sq. x .250_ thk	152.4mm sq. x 6.35mm thk

Les produits et services de ce document sont proposés en France par :



OPTICS CONCEPT

12 Avenue des Prés
78180 Montigny-le-Bretonneux
FRANCE

Tél : +33 (0)1 30 64 05 62
Fax : +33 (0)1 30 64 06 38
contact@optics-concept.fr

Fused silica and quartz Substrates and Wafers

FS-112	6_sq. x .120_thk	152.4mm sq. x 3mm thk
FS-113	6_sq. x .090_thk	152.4mm sq. x 2.3mm thk
FS-114	6_sq. x .0787_thk	152.4mm sq. x 2mm thk
FS-115	6_sq. x .059_thk	152.4mm sq. x 1.5mm thk
FS-116	6_sq. x .0394_thk	152.4mm sq. x 1mm thk
FS-117	6_dia. x .120_thk	152.4mm dia. x 3 mm thk
FS-269	5.905" dia. x .236" thk	150mm dia. x 6mm thk
FS-118	5.905_dia. x .120_thk	150mm dia. x 3mm thk
FS-119	5.905_dia. x .090_thk	150mm dia. x 2.3mm thk
FS-120	5.905_dia. x .0787_thk	150mm dia. x 2mm thk
FS-121	5.905_dia. x .059_thk	150mm dia. x 1.5mm thk
FS-122	5.905_dia. x .0394_thk	150mm dia. x 1mm thk
FS-123	5.905_dia. x .0197_thk	150mm dia. x .5mm thk
FS-124	5.25_dia. x .059_thk	133mm dia. x 1.5mm thk
FS-125	5.25_dia. x .0394_thk	133mm dia. x 1mm thk
FS-126	5.25_dia. x .0275_thk	133mm dia. x .7mm thk
FS-127	5.25_dia. x .0197_thk	133mm dia. x .5mm thk
FS-128	5.25_dia. x .015_thk	133mm dia. x .381mm thk
FS-129	5.25_dia. x .010_thk	133mm dia. x .254mm thk
FS-130	5_sq. x .190_thk	127mm sq. x 4.826mm thk
FS-131	5_sq. x .090_thk	127mm sq. x 2.3mm thk
FS-132	5_sq. x .0787_thk	127mm sq. x 2mm thk
FS-133	5_sq. x .059_thk	127mm sq. x 1.5mm thk
FS-134	5_sq. x .0394_thk	127mm sq. x 1mm thk
FS-135	4.92_dia. x .0787_thk	125mm dia. x 2mm thk
FS-136	4.92_dia. x .059_thk	125mm dia. x 1.5mm thk
FS-137	4.92_dia. x .0394_thk	125mm dia. x 1mm thk
FS-138	4.92_dia. x .0293_thk	125mm dia. x .75mm thk
FS-139	4.92_dia. x .0275_thk	125mm dia. x .7mm thk
FS-140	4.92_dia. x .0197_thk	125mm dia. x .5mm thk
FS-141	4.92_dia. x .015_thk	125mm dia. x .381mm thk
FS-142	4.92_dia. x .010_thk	125mm dia. x .254mm thk
FS-143	4.25_dia. x .0394_thk	107.9mm dia. x 1mm thk
FS-144	4.25_dia. x .0197_thk	107.9mm dia. x .5mm thk

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FS-145	4.25_ dia. x .015_ thk	107.9mm dia. x .381mm thk
FS-146	4.25_ dia. x .010_ thk	107.9mm dia. x .254mm thk
FS-147	4_ dia. x .043_ thk	101mm dia. x 1.1mm thk
FS-148	3.94_ dia. x .090_ thk	100mm dia. x 2.3mm thk
FS-149	3.94_ dia. x .0787_ thk	100mm dia. x 2mm thk
FS-150	3.94_ dia. x .059_ thk	100mm dia. x 1.5mm thk
FS-151	3.94_ dia. x .0394_ thk	100mm dia. x 1mm thk
FS-152	3.94_ dia. x .0295_ thk	100mm dia. x .75mm thk
FS-153	3.94_ dia. x .028_ thk	100mm dia. x .7mm thk
FS-154	3.94_ dia. x .0197_ thk	100mm dia. x .5mm thk
FS-155	3.94_ dia. x .015_ thk	100mm dia. x .381mm thk
FS-156	3.94_ dia. x .010_ thk	100mm dia. x .25mm thk
FS-157	3.94_ dia. x .005_ thk	100mm dia. x .127mm thk
FS-158	3_ dia. x .0787_ thk	76.2mm dia. x 2mm thk
FS-159	3_ dia. x .059_ thk	76.2mm dia. x 1.5mm thk
FS-160	3_ dia. x .0394_ thk	76.2mm dia. x 1mm thk
FS-161	3_ dia. x .0197_ thk	76.2mm dia. x .5mm thk
FS-162	3_ dia. x .015_ thk	76.2mm dia. x .381mm thk
FS-163	3_ dia. x .010_ thk	76.2mm dia. x .254mm thk
FS-164	3_ dia. x .008_ thk	76.2mm dia. x .2mm thk
FS-165	3_ dia. x .005_ thk	76.2mm dia. x .127mm thk
FS-166	2.25_ sq. x .250_ thk	57.15mm sq. x 6.35mm thk
FS-167	2.25_ sq. x .150_ thk	57.15mm sq. x 3.81mm thk
FS-168	2.25_ sq. x .120_ thk	57.15mm sq. x 3mm thk
FS-169	2.25_ sq. x .090_ thk	57.15mm sq. x 2.3mm thk
FS-170	2.25_ sq. x .0787_ thk	57.15mm sq. x 2mm thk
FS-171	2.25_ sq. x .059_ thk	57.15mm sq. x 1.5mm thk
FS-172	2.25_ sq. x .050_ thk	57.15mm sq. x 1.27mm thk
FS-173	2.25_ sq. x .0394_ thk	57.15mm sq. x 1mm thk
FS-174	2.25_ sq. x .030_ thk	57.15mm sq. x .76mm thk
FS-175	2.25_ sq. x .025_ thk	57.15mm sq. x .635mm thk
FS-176	2.25_ sq. x .020_ thk	57.15mm sq. x .5mm thk
FS-177	2.25_ sq. x .0197_ thk	57.15mm sq. x .5mm thk
FS-178	2.25_ sq. x .015_ thk	57.15mm sq. x .381mm thk

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FS-179	2.25_sq. x .010_thk	57.15mm sq. x .25mm thk
FS-180	2.25_sq. x .008_thk	57.15mm sq. x .2mm thk
FS-181	2.25_sq. x .005_thk	57.15mm sq. x .127mm thk
FS-182	2.25_sq. x .004_thk	57.15mm sq. x .1mm thk
FS-183	2.25_sq. x .003_thk	57.15mm sq. x .076mm thk
FS-184	2_sq. x .250_thk	50.8mm sq. x 6.35mm thk
FS-185	2_sq. x .150_thk	50.8mm sq. x 3.81mm thk
FS-186	2_sq. x .120_thk	50.8mm sq. x 3mm thk
FS-187	2_sq. x .090_thk	50.8mm sq. x 2.3mm thk
FS-188	2_sq. x .0787_thk	50.8mm sq. x 2mm thk
FS-189	2_sq. x .059_thk	50.8mm sq. x 1.5mm thk
FS-190	2_sq. x .050_thk	50.8mm sq. x 1.27mm thk
FS-191	2_sq. x .0394_thk	50.8mm sq. x 1mm thk
FS-192	2_sq. x .030_thk	50.8mm sq. x .76mm thk
FS-193	2_sq. x .025_thk	50.8mm sq. x .635mm thk
FS-194	2_sq. x .020_thk	50.8mm sq. x .5mm thk
FS-195	2_sq. x .0197_thk	50.8mm sq. x .5mm thk
FS-196	2_sq. x .015_thk	50.8mm sq. x .381mm thk
FS-197	2_sq. x .010_thk	50.8mm sq. x .25mm thk
FS-198	2_sq. x .008_thk	50.8mm sq. x .2mm thk
FS-199	2_sq. x .005_thk	50.8mm sq. x .127mm thk
FS-200	2_sq. x .004_thk	50.8mm sq. x .1mm thk
FS-201	2_sq. x .003_thk	50.8mm sq. x .076mm thk
FS-202	2_dia. x .050_thk	50.8mm sq. x 1.27mm thk
FS-203	2_dia. x .0394_thk	50.8mm sq. x 1mm thk
FS-204	2_dia. x .035_thk	50.8mm sq. x .89mm thk
FS-205	2_dia. x .025_thk	50.8mm sq. x .63mm thk
FS-206	2_dia. x .0197_thk	50.8mm sq. x .5mm thk
FS-207	2_dia. x .015_thk	50.8mm sq. x .381mm thk
FS-208	2_dia. x .010_thk	50.8mm sq. x .25mm thk
FS-209	2_dia. x .005_thk	50.8mm sq. x .127mm thk
FS-210	2_dia. x .004_thk	50.8mm sq. x .1mm thk
FS-211	1_sq. x .250_thk	25.4mm sq. x 6.35mm thk
FS-212	1_sq. x .190_thk	25.4mm sq. x 4.826mm thk

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FS-213	1_sq. x .150_thk	25.4mm sq. x 3.81mm thk
FS-214	1_sq. x .120_thk	25.4mm sq. x 3.048mm thk
FS-215	1_sq. x .090_thk	25.4mm sq. x 2.286mm thk
FS-216	1_sq. x .059_thk	25.4mm sq. x 1.5mm thk
FS-217	1_sq. x .0394_thk	25.4mm sq. x 1mm thk
FS-218	1_sq. x .0275_thk	25.4mm sq. x .69mm thk
FS-219	1_sq. x .020_thk	25.4mm sq. x .5mm thk
FS-220	1_sq. x .0197_thk	25.4mm sq. x .5mm thk
FS-221	1_sq. x .015_thk	25.4mm sq. x .381mm thk
FS-222	1_sq. x .010_thk	25.4mm sq. x .25mm thk
FS-223	1_sq. x .008_thk	25.4mm sq. x .2mm thk
FS-224	1_sq. x .007_thk	25.4mm sq. x .177mm thk
FS-225	1_sq. x .006_thk	25.4mm sq. x .152mm thk
FS-226	1_sq. x .005_thk	25.4mm sq. x .127mm thk
FS-227	1_sq. x .004_thk	25.4mm sq. x .1mm thk
FS-228	1_sq. x .003_thk	25.4mm sq. x .076mm thk
FS-229	1_sq. x .002_thk	25.4mm sq. x .05mm thk
FS-230	1_dia. x .120_thk	25.4mm dia. x 3.048mm thk
FS-231	1_dia. x .090_thk	25.4mm dia. x 2.286mm thk
FS-232	1_dia. x .0787_thk	25.4mm dia. x 2mm thk
FS-233	1_dia. x .059_thk	25.4mm dia. x 1.5mm thk
FS-234	1_dia. x .0394_thk	25.4mm dia. x 1mm thk
FS-235	1_dia. x .0197_thk	25.4mm dia. x .5mm thk
FS-236	1_dia. x .015_thk	25.4mm dia. x .381mm thk
FS-237	1_dia. x .010_thk	25.4mm dia. x .25mm thk
FS-238	1_dia. x .005_thk	25.4mm dia. x .127mm thk
FS-239	.788" sq. x .008" thk	20mm sq. x .2mm thk
FS-240	.788" sq. x .007" thk	20mm sq. x .177mm thk
FS-241	.788" sq. x .006" thk	20mm sq. x .152mm thk
FS-242	.788" sq. x .005" thk	20mm sq. x .127mm thk
FS-243	.788" sq. x .004" thk	20mm sq. x .1mm thk
FS-244	.788" sq. x .003" thk	20mm sq. x .076mm thk
FS-245	.788" sq. x .002" thk	20mm sq. x .05mm thk
FS-246	.788" sq. x .001" thk	20mm sq. x .025mm thk

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Fused silica and quartz Substrates and Wafers

FS-247	.394_ Dia. x .0394_ thk	10mm Dia. x 1mm thk
FS-248	.394_ Dia. x .0197_ thk	10mm Dia. x .5mm thk
FS-249	.394_ Dia. x .015_ thk	10mm Dia. x .381mm thk
FS-250	.394_ Dia. x .010_ thk	10mm Dia. x .25mm thk
FS-251	.394_ Dia. x .008_ thk	10mm Dia. x .2mm thk
FS-252	.394_ Dia. x .007_ thk	10mm Dia. x .177mm thk
FS-253	.394_ Dia. x .006_ thk	10mm Dia. x .152mm thk
FS-254	.394_ Dia. x .005_ thk	10mm Dia. x .127mm thk
FS-255	.394_ Dia. x .004_ thk	10mm Dia. x .1mm thk
FS-256	.394_ Dia. x .003_ thk	10mm Dia. x .076mm thk
FS-257	.394_ sq. x .0197_ thk	10mm sq. x .5mm thk
FS-258	.394_ sq. x .015_ thk	10mm sq. x .381mm thk
FS-259	.394_ sq. x .010_ thk	10mm sq. x .25mm thk
FS-260	.394_ sq. x .008_ thk	10mm sq. x .2mm thk
FS-261	.394_ sq. x .007_ thk	10mm sq. x .177mm thk
FS-262	.394_ sq. x .006_ thk	10mm sq. x .152mm thk
FS-263	.394_ sq. x .005_ thk	10mm sq. x .127mm thk
FS-264	.394_ sq. x .004_ thk	10mm sq. x .1mm thk
FS-265	.394_ sq. x .003_ thk	10mm sq. x .076mm thk
FS-266	.394_ sq. x .002_ thk	10mm sq. x .05mm thk
FS-267	.394_ sq. x .001_ thk	10mm sq. x .0254mm thk

GE 124 Fused Quartz: Available for Immediate Delivery

Some items may have notch or flat.

Please call or [email](#) for a quotation

[Transmission Curve](#) and [Technical Data Sheet](#)

Item #	Geometry	Thickness	Surface Finish
GE-101	4.25" Dia.	1mm	POLISHED B/S
GE-102	4.25" Dia.	1.5mm	POLISHED B/S
GE-105	1" Sq.	1mm	POLISHED B/S
GE-106	1" Sq.	1.5mm	POLISHED B/S
GE-103	4.25" Dia.	1mm	POLISHED 1 SIDE

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GE-104	4.25" Dia.	1.5mm	POLISHED 1 SIDE
GE-107	1" Sq.	1mm	POLISHED 1 SIDE
GE-108	1" Sq.	1.5mm	POLISHED 1 SIDE
GE-109	4.25" Dia.	.060"	POLISHED B/S
GE-110	4.25" Dia.	.0394"	POLISHED B/S
GE-111	100 mm Dia.	.0394"	POLISHED B/S
GE-112	100 mm Dia.	.020"	POLISHED B/S
GE-113	1" Sq.	.0394"	POLISHED B/S
GE-114	1" Sq.	.020"	POLISHED B/S
GE-115	1" Sq.	.060"	POLISHED B/S
GE-116	1" Sq.	.040"	POLISHED B/S

Dynasil 4000 Fused Quartz:

Available for Immediate Delivery

**Optical Grade Synthetic Fused Silica manufactured by Dynasil
is now available from Valley Design.**

Optical Grade Fused Quartz wafers provide good UV and visible transmission. If the primary goals are for simple light gathering and strong mechanical properties, this material provides excellent performance at a cost-effective price.

Applications Include:

- Windows, lenses, prisms & mirrors
- Condenser optics not concerned with scatter or distortion
- High temperature and pressure applications
- Optical flats, microscope slides and sight glasses

Please call or [email](#) for a quotation

NEW IN STOCK SPECIALS

Item #	Geometry	Thickness	Flat
DY-101	150mm dia.	1mm thk.	1.885"
DY-102	150mm dia.	1mm thk.	SEMI
DY-103	150mm dia.	.5mm thk.	1.885"
DY-104	150mm dia.	.5mm thk.	SEMI
DY-105	1" square	1mm thk.	N/A
DY-106	1" square	.5mm thk.	N/A

All items above optically polished both sides.

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Fused silica and quartz Substrates and Wafers

Fused Quartz, Fused Silica Windows and Plates

Available for Immediate Delivery

Please call or [email](#) for a quotation

Item #	Geometry	Thickness	Surface Finish
PM-1077	6" Sq.	.250"	POLISHED B/S
PM-1075	6" Sq.	.150"	POLISHED B/S
PM-1066	6" Sq.	.120"	POLISHED B/S
PM-102	5" Sq.	2mm	POLISHED B/S
PM-1064	5" Sq.	.250"	POLISHED B/S
PM-1062	5" Sq.	.180"	POLISHED B/S
PM-101	5" Sq.	.090"	POLISHED B/S
PM-103	5" Sq.	.085"	POLISHED B/S
PM-1055	5" Sq.	.078"	POLISHED B/S
PM-1053	5" Sq.	.075"	POLISHED B/S

Other related web pages:

[Properties of Corning 7980 and 7940 fused silica UV grade material](#)

[Fused silica and fused quartz flat optics and windows](#)

[Fused silica and fused quartz wafers and substrates](#)

[Optically polished fused silica, fused quartz and single crystal quartz](#)

[Fused silica and fused quartz substrates, windows and plates](#)

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