

## 99,6% and 96% Substrates and Wafers



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ISO 9001:2000 Certified

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

Lapping • Polishing • Dicing • Flat Optics • All Materials

### 99.6% Alumina Currently in Stock: Available for Immediate Delivery

Thickness Tolerance: Unless otherwise noted, standard is  $\pm .001$ "-.002"

All 4" dia. and 100mm dia. parts have a SEMI standard reference flat.

Surface Finishes:

AF = As Fired

LBS = Lapped Both Sides (10-20u" Ra)

PBS = Polished Both Sides (1-2u" Ra)

Improved tolerances, surface finishes and alternate sizes are also available.

For non-priced items below, please call or [email](#) for a Quotation.

#### NEW IN STOCK SPECIALS

| Item #  | Geometry | Thickness          | Finish | 1 | 5 | 10 | 25 | 50 | 100 |
|---------|----------|--------------------|--------|---|---|----|----|----|-----|
| AI99-01 | 4" sq.   | .015" $\pm$ .0005" | AF     | - | - | -  | -  | -  | -   |
| AI99-02 | 4" sq.   | .040" $\pm$ .0005" | P1S    | - | - | -  | -  | -  | -   |
| AI99-03 | 4" sq.   | .040" $\pm$ .001"  | PBS    | - | - | -  | -  | -  | -   |
| AI99-04 | 4" sq.   | .020" $\pm$ .0005" | PBS    | - | - | -  | -  | -  | -   |
| AI99-05 | 3" sq.   | .025" $\pm$ .002"  | AF     | - | - | -  | -  | -  | -   |
| AI99-06 | 3" sq.   | .015" $\pm$ .0005" | AF     | - | - | -  | -  | -  | -   |
| AI99-07 | 3" sq.   | .020" $\pm$ .0005" | PBS    | - | - | -  | -  | -  | -   |
| AI99-08 | 3" sq.   | .015" $\pm$ .0005" | PBS    | - | - | -  | -  | -  | -   |
| AI99-09 | 2" sq.   | .025" $\pm$ .0005" | PBS    | - | - | -  | -  | -  | -   |

#### STANDARD STOCK ITEMS

| Item #   | Geometry   | Thickness | Surface Finish |
|----------|------------|-----------|----------------|
| AI99-101 | 150mm Dia. | .025"     | AS-FIRED       |
| AI99-102 | 4.5" sq.   | .020"     | AS-FIRED       |
| AI99-103 | 4.5" sq.   | .018"     | AS-FIRED       |
| AI99-104 | 4.5" sq.   | .015"     | LAPPED B/S     |
| AI99-105 | 4.5" sq.   | .010"     | LAPPED B/S     |
| AI99-106 | 4" dia.    | .025"     | AS-FIRED       |
| AI99-107 | 4" dia.    | .015"     | POLISHED B/S   |
| AI99-108 | 100mm dia. | .040"     | AS-FIRED       |

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**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](mailto:contact@optics-concept.fr)

## 99,6% and 96% Substrates and Wafers

|          |                |       |                 |
|----------|----------------|-------|-----------------|
| AI99-109 | 100mm dia.     | .025" | LAPPED B/S      |
| AI99-110 | 100mm dia.     | .025" | POLISHED B/S    |
| AI99-111 | 100mm dia.     | .020" | LAPPED B/S      |
| AI99-112 | 100mm dia.     | .020" | POLISHED B/S    |
| AI99-113 | 100mm dia.     | .015" | AS-FIRED        |
| AI99-114 | 100mm dia.     | .015" | LAPPED B/S      |
| AI99-115 | 100mm dia.     | .015" | POLISHED B/S    |
| AI99-116 | 100mm dia.     | .010" | LAPPED B/S      |
| AI99-117 | 100mm dia.     | .010" | POLISHED B/S    |
| AI99-118 | 100mm dia.     | .005" | LAPPED B/S      |
| AI99-119 | 100mm dia.     | .005" | POLISHED B/S    |
| AI99-120 | 2.65" x 2.173" | .045" | AS-FIRED        |
| AI99-121 | 2.25" sq.      | .050" | LAPPED B/S      |
| AI99-122 | 2.25" sq.      | .050" | POLISHED B/S    |
| AI99-123 | 2.25" sq.      | .040" | LAPPED B/S      |
| AI99-124 | 2.25" sq.      | .040" | POLISHED B/S    |
| AI99-125 | 2.25" sq.      | .034" | POLISHED B/S    |
| AI99-126 | 2.25" sq.      | .028" | LAPPED B/S      |
| AI99-127 | 2.25" sq.      | .025" | LAPPED B/S      |
| AI99-128 | 2.25" sq.      | .025" | POLISHED 1 SIDE |
| AI99-129 | 2.25" sq.      | .025" | POLISHED B/S    |
| AI99-130 | 2.25" sq.      | .020" | POLISHED B/S    |
| AI99-131 | 2.25" sq.      | .015" | LAPPED B/S      |
| AI99-132 | 2.25" sq.      | .015" | POLISHED B/S    |
| AI99-133 | 2.25" sq.      | .010" | LAPPED B/S      |
| AI99-134 | 2.20" X 2.06"  | .050" | AS-FIRED        |
| AI99-135 | 2.1" sq.       | .040" | AS-FIRED        |
| AI99-136 | 2.1" sq.       | .040" | LAPPED B/S      |
| AI99-137 | 2.1" sq.       | .040" | POLISHED B/S    |
| AI99-138 | 2.1" sq.       | .035" | AS-FIRED        |
| AI99-139 | 2.1" sq.       | .029" | LAPPED B/S      |
| AI99-140 | 2.1" sq.       | .025" | LAPPED B/S      |
| AI99-141 | 2.1" sq.       | .025" | POLISHED B/S    |
| AI99-142 | 2.1" sq.       | .016" | LAPPED B/S      |
| AI99-143 | 2.1" sq.       | .015" | POLISHED B/S    |
| AI99-144 | 2.1" sq.       | .010" | AS-FIRED        |
| AI99-145 | 2.1" sq.       | .010" | POLISHED B/S    |
| AI99-146 | 2" sq.         | .050" | LAPPED B/S      |
| AI99-147 | 2" sq.         | .040" | POLISHED B/S    |
| AI99-148 | 2" sq.         | .037" | LAPPED B/S      |
| AI99-149 | 2" sq.         | .029" | LAPPED B/S      |
| AI99-150 | 2" sq.         | .025" | LAPPED B/S      |

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FRANCE

Tél : +33 (0)1 30 64 05 62  
Fax : +33 (0)1 30 64 06 38  
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## 99,6% and 96% Substrates and Wafers

|          |           |       |                 |
|----------|-----------|-------|-----------------|
| AI99-151 | 2" sq.    | .025" | POLISHED 1 SIDE |
| AI99-152 | 2" sq.    | .025" | POLISHED B/S    |
| AI99-153 | 2" sq.    | .020" | AS FIRED        |
| AI99-154 | 2" sq.    | .020" | LAPPED B/S      |
| AI99-155 | 2" sq.    | .020" | POLISHED B/S    |
| AI99-156 | 2" sq.    | .016" | LAPPED B/S      |
| AI99-157 | 2" sq.    | .015" | AS-FIRED        |
| AI99-158 | 2" sq.    | .015" | LAPPED B/S      |
| AI99-159 | 2" sq.    | .015" | POLISHED 1 SIDE |
| AI99-160 | 2" sq.    | .015" | POLISHED B/S    |
| AI99-161 | 2" sq.    | .010" | AS-FIRED        |
| AI99-162 | 2" sq.    | .010" | LAPPED B/S      |
| AI99-163 | 2" sq.    | .010" | POLISHED B/S    |
| AI99-164 | 2" sq.    | .006" | LAPPED B/S      |
| AI99-165 | 2" sq.    | .005" | LAPPED B/S      |
| AI99-166 | 2" sq.    | .005" | POLISHED B/S    |
| AI99-167 | 2" sq.    | .004" | LAPPED B/S      |
| AI99-168 | 2" sq.    | .003" | LAPPED B/S      |
| AI99-169 | 1.97" sq. | .025" | POLISHED B/S    |
| AI99-170 | 1" sq.    | .050" | POLISHED B/S    |
| AI99-171 | 1" sq.    | .040" | POLISHED B/S    |
| AI99-172 | 1" sq.    | .025" | LAPPED B/S      |
| AI99-173 | 1" sq.    | .025" | POLISHED B/S    |
| AI99-174 | 1" sq.    | .020" | LAPPED B/S      |
| AI99-175 | 1" sq.    | .020" | POLISHED B/S    |
| AI99-176 | 1" sq.    | .015" | LAPPED B/S      |
| AI99-177 | 1" sq.    | .015" | POLISHED B/S    |
| AI99-178 | 1" sq.    | .010" | LAPPED B/S      |
| AI99-179 | 1" sq.    | .010" | POLISHED B/S    |
| AI99-180 | 1" sq.    | .006" | LAPPED B/S      |
| AI99-181 | 1" sq.    | .005" | LAPPED B/S      |
| AI99-182 | 1" sq.    | .005" | POLISHED B/S    |
| AI99-183 | 1" sq.    | .004" | LAPPED B/S      |
| AI99-184 | 1" sq.    | .004" | POLISHED B/S    |
| AI99-185 | 1" sq.    | .003" | LAPPED B/S      |
| AI99-186 | 1" sq.    | .003" | POLISHED B/S    |
| AI99-187 | 1" sq.    | .002" | LAPPED B/S      |
| AI99-188 | 1" sq.    | .002" | POLISHED B/S    |
| AI99-189 | 1" sq.    | .001" | LAPPED B/S      |
| AI99-190 | 1" sq.    | .001" | POLISHED B/S    |

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## 99,6% and 96% Substrates and Wafers

### 96% Alumina Currently In Stock: Available for Immediate Delivery

Please call or [email](#) for details

| Item #    | Geometry (")         | Geometry (mm)              | Surface Finish |
|-----------|----------------------|----------------------------|----------------|
| AI96-120  | 4" sq. x .007" thk   | 101.6mm sq. x .177mm thk   | LAPPED B/S     |
| AI96-119  | 4" sq. x .006" thk   | 101.6mm sq. x .152mm thk   | LAPPED B/S     |
| AI96-118  | 4" sq. x .005" thk   | 101.6mm sq. x .127mm thk   | LAPPED B/S     |
| AI96-104  | 4" sq. x .004" thk   | 101.6mm sq. x .101mm thk   | LAPPED B/S     |
| AI96-117  | 4" sq. x .003" thk   | 101.6mm sq. x .076mm thk   | LAPPED B/S     |
| AI96-116  | 3" sq. x .007" thk   | 76.2mm sq. x .177mm thk    | LAPPED B/S     |
| AI96-115  | 3" sq. x .006" thk   | 76.2mm sq. x .152mm thk    | LAPPED B/S     |
| AI96-114  | 3" sq. x .005" thk   | 76.2mm sq. x .127mm thk    | LAPPED B/S     |
| AI96-103  | 3" sq. x .004" thk   | 76.2mm sq. x .101mm thk    | LAPPED B/S     |
| AI96-113  | 3" sq. x .003" thk   | 76.2mm sq. x .075mm thk    | LAPPED B/S     |
| AI96-1144 | 2"x2.5"x.030" thk    | 50.8mmx63.5mmx.75mm thk    | LAPPED B/S     |
| AI96-112  | 2" sq. x .007" thk   | 50.8mm sq. x .175mm thk    | LAPPED B/S     |
| AI96-111  | 2" sq. x .006" thk   | 50.8mm sq. x .15mm thk     | LAPPED B/S     |
| AI96-110  | 2" sq. x .005" thk   | 50.8mm sq. x .125mm thk    | LAPPED B/S     |
| AI96-102  | 2" sq. x .004" thk   | 50.8mm sq. x .1mm thk      | LAPPED B/S     |
| AI96-109  | 2" sq. x .003" thk   | 50.8mm sq. x .076mm thk    | LAPPED B/S     |
| AI96-108  | 1" sq. x .007" thk   | 25.4mm sq. x .177mm thk    | LAPPED B/S     |
| AI96-107  | 1" sq. x .006" thk   | 25.4mm sq. x .152mm thk    | LAPPED B/S     |
| AI96-106  | 1" sq. x .005" thk   | 25.4mm sq. x .127mm thk    | LAPPED B/S     |
| AI96-101  | 1" sq. x .004" thk   | 25.4mm sq. x .101mm thk    | LAPPED B/S     |
| AI96-105  | 1" sq. x .003" thk   | 25.4mm sq. x .076mm thk    | LAPPED B/S     |
| AI96-1269 | 4"x6"x.040" thk      | 101.6mmx152.4mmx1.01mm thk | AS-FIRED       |
| AI96-1268 | 4"x6"x.025" thk      | 101.6mmx152.4mmx.635mm thk | AS-FIRED       |
| AI96-1267 | 4.5" sq. x .070" thk | 114.3mm sq. x 1.78mm thk   | AS-FIRED       |
| AI96-1145 | 4.5" sq. x .050" thk | 114.3mm sq. x 1.27mm thk   | AS-FIRED       |
| AI96-1265 | 4.5" sq. x .039" thk | 114.3mm sq. x 1mm thk      | AS-FIRED       |
| AI96-1264 | 4.5" sq. x .037" thk | 114.3mm sq. x .939mm thk   | AS-FIRED       |
| AI96-1263 | 4.5" sq. x .036" thk | 114.3mm sq. x .914mm thk   | AS-FIRED       |
| AI96-1262 | 4.5" sq. x .035" thk | 114.3mm sq. x .889mm thk   | AS-FIRED       |
| AI96-1260 | 4.5" sq. x .033" thk | 114.3mm sq. x .838mm thk   | AS-FIRED       |
| AI96-1258 | 4.5" sq. x .028" thk | 114.3mm sq. x .711mm thk   | AS-FIRED       |
| AI96-1147 | 4" sq. x .025" thk   | 101.6mm sq. x .635mm thk   | AS-FIRED       |
| AI96-121  | 4" sq. x .010" thk   | 101.6mm sq. x .254mm thk   | AS-FIRED       |
| AI96-1270 | 3.9"x4.9"x.025" thk  | 99mmx124.46mmx.635mm thk   | AS-FIRED       |

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