



80 Railroad Ave., Ridgefield Park, NJ, 07660 USA
Tel: +1-201-444-7343; Fax: +1-201-444-7933
Visit: www.el-cat.com; Inquire: el-cat@el-cat.com

El-Cat is a distributor of Silicon wafers and other Materials for use in electronics

El-Cat keeps large inventory of Silicon wafers, shown at www.semiconwafers.com & www.el-cat.com with prices posted

Wafers can be ordered online or by telephone and are shipped within one business day

CZ and FZ crystallized Silicon wafers are available in resistivity range 0.001 to over 20,000 Ωcm

Single and Double-side-polished wafers are in sizes 1"Ø, 2"Ø, 3"Ø, 4"Ø, 5"Ø, 6"Ø, 8"Ø, 12"Ø

Wafer thicknesses are from under 100 μm to over 10mm

El-Cat also sells:

Germanium (0.005-50 Ωcm)

III-V Compound Semiconductors

(GaN, GaAs, GaP, GaSb, InAs, InP, InSb)

(n-type / p-type / semi-insulating),

Silicon Carbide wafers (4H & 6H; SI & SC),

Sapphire wafers (C-cut, R-cut, A-cut),

Alpha Quartz wafers (monocrystalline SiO_2)

(ST-cut, Z-cut, etc.)(seed-free/SAW grade)

Fused Quartz/Silica (polycrystalline SiO_2)

(Standard or extended UV range grade)

Borofloat Glass (Pyrex) wafers

El-Cat also sells auxiliary things associated with wafer manufacturing, such as: wafer cassettes & carriers (teflon / polypropylene), carrier handles, ingot mounting rails, etc.



El-Cat Europe

Warsaw, 04-331 Poland
Tel: +48 605 64 66 68
www.semiconwafers.com; Inquire: el-cat@el-cat.com

El-Cat is a manufacturer of specialty Silicon wafers (as Custom Silicon Wafers or CSW)

We specialize in Double-side-polished, Ultra-Flat wafers (with TTV<1 μm) and Low-Bow wafers with Bow & Warp<10 μm (and smaller on request)

We specialize in wafers with common (100), (111) and uncommon orientations such as (110), (211), (310), (510), as well as wafers requiring surface or Flat orientation accuracy of $\pm 0.1^\circ$ or better. We can core ingots at various angles and slice wafers at up to 45° from ingot axis

XRD zero diffraction wafers

We make Silicon wafers from 1"Ø to 6"Ø

We have equipment for crystallographic alignment, slicing, edge-rounding, lapping, precision grinding, etching, polishing and cleaning wafers to SEMI standards

We have instruments for X-Ray diffraction, and measurements of Resistivity and wafer geometry (TTV, TIR, LTIR, Bow, Warp). We can provide maps of thickness variations of individual wafers

We have a staff experienced in all aspects of Silicon wafer manufacturing who are ever in search of new challenges

**The difficult we do right away,
the impossible takes a little longer**

**El-Cat Inc. is incorporated in the
State of New Jersey, in business since 1986.**



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El-Cat cooperates with other firms, to provide integrated solutions to clients seeking wafer structures requiring multiple processing steps or custom made electronic Materials

This includes Silicon Epi wafers, and wafers with thin films of Silicon Oxides, Silicon Nitrides, and thin films of base metals (Cu, Al, Ni, Ti, Co, Cr) and noble metals (Au, Ag, Pt, Pd)

This includes Silicon on Insulator (SOI), and Silicon on Sapphire (SOS) wafers

Materials for ingot growth:
polycrystalline chunks and seeds

We offer diffusion services for gas or liquid dopants

We offer wafer dicing, laser cutting, and engraving

El-Cat cooperates with firms that make multi-layer Epi structures of III-V Compound Semiconductors by MOCVD, to create HEMT's, IR Laser Diodes, QW Edge emitting Lasers, Opto-Electronics, Waveguides, Braggs Reflectors, LED's, on wafers from 2"Ø to 6"Ø or 12 of 4"Ø wafers at a time

We welcome inquiries for uncommon wafers, wafer structures and materials

**What we do not have in stock, we make,
and what we cannot make we have made
by cooperating firms throughout the world**

**Our goal is to provide electronic materials
to help our clients' dreams come true.**

(v.2, 05/23)



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All products (unless noted) come with Original Manufacturer's Certificate of Compliance

All materials are warranted, that they conform to their specifications as advertised

Orders from accredited Universities and firms with established credit ratings are accepted on Net 30 days basis

Prepayments may be required on custom made items, or those prepared in cooperation with other firms

We accept PayPal and Credit Cards (VISA/MasterCd/AmEx) from USA or from abroad

All wafers that are in stock, are shipped within one business day

We ship anywhere in the world (where allowed by US laws)

We ship via the Post office by Express Mail, domestically or internationally

We ship by commercial carriers (UPS/DHL/FedEx) either pre-paid or freight-collect on customer's account

We are ready to help and share our experience and knowledge of the products that we sell

We want to know how our products are used, how well they perform, and how to improve them

We wish to share in our clients' successes and advancement of scientific knowledge

To your
Emerald City
on the hill



Follow
the Silicon Wafer road



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Monocrystalline Silicon wafers & ingots (CZ & FZ)

Polycrystalline Silicon wafers & ingots

Silicon Epi wafers

Silicon on Insulator (SOI) wafers

Silicon on Sapphire (SOS) wafers

Solar Cell wafers

Germanium wafers

Silicon Carbide wafers

Compound Semiconductors

- Gallium Nitride (GaN)
- Gallium Arsenide (GaAs)
- Gallium Phosphide (GaP)
- Gallium Antimonide (GaSb)
- Indium Arsenide (InAs)
- Indium Phosphide (InP)
- Indium Antimonide (InSb)

Sapphire wafers (Al_2O_3)

Quartz wafers (monocrystalline SiO_2)

Fused Quartz/Silica wafers (polycrystalline SiO_2)

Borofloat glass wafers

Langasite, NdGaO₂, LiNbO₃, LiTaO₃ wafers

What we do not have, we make or have made:
MOCVD Epitaxy structures

- in single or multi-wafer reactors
- on substrates, 2", 3", 4", 6" diameter

Thin films on Silicon wafers

- Silicon Oxides and Silicon Nitrides
- Noble and base metals