

# Aluminum Wafers

*Innovative Silicon Systems* offers a complete line of Aluminum wafers in a wide range of colors and customization for a variety of uses.

*iSiS* Aluminum wafers are perfect to use as test wafers for wafer handling set-up, alignment and testing!

- **Aluminum wafers are tougher – they won't break or chip like silicon.**  
A silicon wafer that breaks in your tool during wafer handling set-up and testing can take hours of clean-up time.
- **Aluminum wafers won't be mistaken for silicon wafers and used in production.** Silicon wafers used for wafer handling set-up and testing are usually of poor quality, yet are sometimes "appropriated" for production with subsequent poor yields and wasted processing cost. Aluminum wafers can be made in a variety of colors and with integral artwork or labelling so they can't be mistaken for silicon!
- **Aluminum wafers are non-contaminating.**  
Our wafers are anodized, resulting in a hard, abrasion resistant coating of  $Al_2O_3$  – the same material used in semiconductor processing tools.

*iSiS* Aluminum wafers are an excellent marketing tool! Our Aluminum wafers can be customized to present your company to the world!

- Use custom Aluminum wafers in demonstrating your tool's wafer handling at product demonstrations and trade shows rather than plain silicon wafers to "punch-up" your unique message! No chance of breakage either!
- Supply your product with a set of Aluminum wafers emblazoned with your company's name or logo! Your customers will appreciate it!
- Aluminum wafers are more useful and superior handouts than keychains or lanyards that just end up in the drawer.

*iSiS* Aluminum wafers are available in almost any color or combination of colors. In addition, almost any artwork, logo or message can be permanently applied to an Aluminum wafer through our custom anodization process.

*iSiS* Aluminum wafers are available in every standard wafer diameter from 4" to 300mm; with or without SEMI standard flats or notches.

*Innovative Silicon Systems* provides a wide range of semiconductor productivity enhancement tools and services. We welcome the opportunity to discuss your specific needs.



*Innovative Silicon Systems*

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## Specifications:

Material:	Aluminum Alloy 6061-T6, Anodized
Diameter:	4", 100mm, 125mm, 150mm, 200mm, 300m
Flats/Notches:	Available with or without SEMI standard flats or notches
Standard Thickness:	.030" (760 micron) – custom thicknesses available
Flatness/Bow:	<.010" – custom flatness specifications available
Surface Reflectivity:	Matte both sides, Polished 1 side or Polished 2 sides (Polished surface has reflectivity sufficient for most optical sensors)
Surface Finish:	Type II or Type III (Hard) Anodized
Colors:	Almost any color available in Type II anodization. Some samples are shown below. Type III anodization colors are more limited and typically darker.
Artwork:	A custom anographic/silk-screening technique is used to place lettering, logos or artwork on the wafer. The image is in the anodized finish so it can't flake, peel or rub off.

 Deep Red	 Red Bordeaux 2R	 Pink	 Orange 3A
 Golden Orange	 Copper BF	 Gold S	 Yellow
 Yellow 4A	 Yellow 3GL	 Green SCG	 Green AEN
 Olive Drab	 Teal	 Turquoise	 Fast Blue
 Blue 4A	 Electric Blue	 Violet DS	 Violet 3D
 Bronze	 Brown		
 Grey NLN	 Grey BL	 Black HBL	 Brown



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## Price List

Price per wafer in 25 wafer lot	Diameter, mm			
	125	150	200	300
Wafers with SEMI Standard Flat or Notch				
Std Mill Finish both Sides	\$23	\$28	\$32	\$37
Polished 1 Side	\$32	\$37	\$44	\$58
Polished both Sides	\$42	\$49	\$59	\$73
Adders:				
Type II Anodize, 1 Color	\$8	\$9	\$14	\$18
Type II Anodize, 2 Color *	\$16	\$19	\$27	\$34
Type III (Hard) Anodize, 1 Color	\$12	\$14	\$18	\$24
Type III (Hard) Anodize, 2 Color *	\$20	\$24	\$31	\$40

\* Plus one-time artwork fee for defining color separation  
Anographic Silk-Screening of letters, logos or other artwork requires a minimum of 2 color anodization and one-time artwork fee.

For example, a lot of 25 wafers 200mm diameter, polished 1 side, Type II anodizing with Anographic silk-screening of a company logo would be \$44 + \$27 = \$71/wafer = \$1775/lot + one-time artwork fee (typically \$100).

Other Custom Services Available (consult factory):

- ❖ Custom Thicknesses
- ❖ Custom Flatness/Bow Specifications
- ❖ Color Fades and Splashes
- ❖ Three or more colors
- ❖ CO2 Cleaning & Individual Clean-Room Bagging of Wafers



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