

Advanced Semiconductors Company

Semiconductor Materials

AdSem offers following single crystal and polycrystalline Si and Ge ingots/wafers p- and n-type:

Materials	Max Diameter, inch / mm	Available Resistivity range, Ohm-cm	Impurity concentration $/N_A - N_D/$, cm ⁻³
Large Diameter Silicon			
1. Single crystal Si* * slip free for diameter < 12"/300	19''/490	0.001 - 50	10 ¹⁴ - 10 ²⁰
2. Polycrystalline Si	22''/560		
Neutron Transmutation Doped Si			
Single crystal or polycrystalline, (ingot length up to 100cm)	Up to 6"	$3.0 - 2x10^4$	$5x10^{11} - 1.5x10^{15}$
Neutron Transmutation Doped Germanium			
Single crystal or polycrystalline	Up to 4"	0.01 - 50	10 ¹¹ - 5x10 ¹⁷
Custom ingot size and increased uniformity of impurity distribution in neutron doped Si and Ge ingots are available			