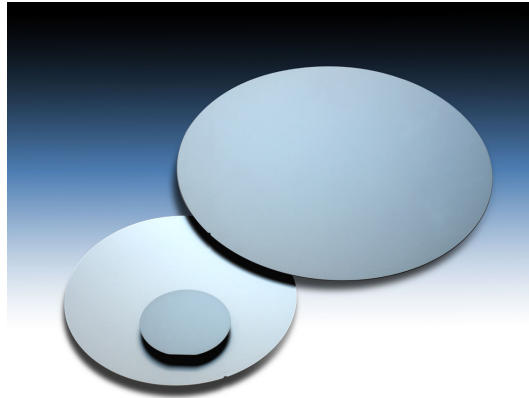


Resistivity Standard

RESISTANCE NEED NOT BE FUTILE. Resistivity Standards (RS) span 4 decades and are designed for calibrating both contact and non-contact resistivity measuring instruments. The standard is created by sawing a doped single crystalline ingot into wafers, lapping and chemically cleaning them to VLSI Standards' specifications.

The Resistivity Standard, available in three wafer sizes, is shown in its matte finish.



PRODUCT DESCRIPTION

Resistivity Standards are bare silicon wafers available in 3 in, 8 in and 12 in sizes. The silicon is p-type (Boron) doped to nominal resistivity values, from 0.002 ohm.cm to 75 ohm.cm as available on the 3" model. For enhanced measurement on contact probes, the wafers are lapped and chemically polished. The increased surface roughness allows cleaner penetration through the native oxide layer and better contact.

Each wafer is certified at its center, NIST Traceable for accuracy. Certificates of Calibration are provided with each standard and report the resistivity, sheet resistance and thickness measurement values with calculated uncertainties.

PRODUCT SPECIFICATIONS

Wafer Size	Resistivity [Ohm.cm]	Sheet resistance [Ohms/□]	Thickness
76.2	0.002	0.04	508 μm
76.2	0.01	0.2	508 μm
76.2	0.03	0.6	508 μm
76.2	0.1	2	508 μm
76.2	0.3	6	508 μm
76.2	0.9	18	508 μm
76.2	3	60	508 μm
76.2	10	200	508 μm
76.2	30	600	508 μm
76.2	57	1100	508 μm
76.2	75	1500	508 μm

Wafer Size	Ohm.cm	Ohms/□	Thickness
200	0.01	0.14	710 μm
200	0.03	0.42	710 μm
200	0.1	1.4	710 μm
200	0.3	4.2	710 μm
200	1	14	710 μm
200	3	42	710 μm
200	10	141	710 μm
200	30	423	710 μm
200	60	845	710 μm

Wafer Size	Ohm.cm	Ohms/□	Thickness
300	0.02	0.25	760 μm
300	2.0	26	760 μm
300	10	140	760 μm