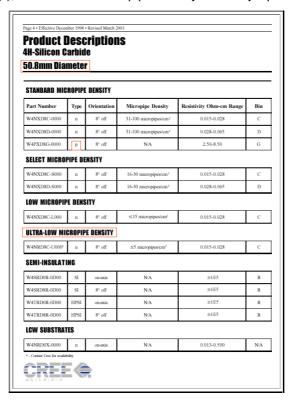
Commercially Available SiC

- Here are some product specification sheets taken directly from major suppliers for the **4H-SiC** polytype.
 - First, the **50.8 mm** standard. Note that there is only one **p**-type wafer, that the resistivity is always very low or extremely large ("semi-insulating"), and that the "micropipe density" is a major parameter



Now the **50.8** mm standard. Note that there is only *one* **p**-type wafer, resistivities again are always very low or extremely large ("semi-insulating"), and there is no "ultra-low micropipe density" available in Sept. **2003**.



- The "Off-axis" specs together with the low resistivity in the "orientation" column tells us that these wafers are only intended as a substrates for an epitaxial layer.
- Now the 6H-SiC wafers:



- Note that there is a lightly **p**-doped (1 5) Ωcm wafer.
- No price quotes are given in the Internet. But **SiC** does not come cheaply. Prices of **\$250 \$500** (depending on specs) for one **50 mm** wafer are presently (**2003**) asked. Anyway, there is progress: In **1995** it was more like **\$600 \$2000**.
 - For that kind of money you get several **300 mm Si** wafers, which are far more perfect form a crystal quality point of view. It follows that if people are willing to pay that much money for so little, **SiC** must be useful to some.