Standard Oxide Etch Recipe Vision RIE 1

March 25, 2013

Equipment

Equipment Vision RIE 1

Manufacture Advanced Vacuum Model Vision-320 RIE

Platen size 12 in Platen Material Graphite

Recipe

Recipe Name Standard Oxide

Gas CHF₃ 45 sccm

O₂ 5 sccm

Platen Power 250 W

RF Frequency 13.56 Mhz Chamber Pressure 40 mTorr

Results ^a

Material Thermo Oxide (Grown @ 1050 °C)

Etch Rate 250.03 A/min b

Uniformity 2.02 % ^c

Mask: Microposit SC1827 d

Selectivity (vs. PR) 0.93:1

a: All data is updated as the date indicated above

b: An average value from 15 min etch

c: Etching depth variation across a 4" wafer, defined as std/average

d: Photo-resist was pre-baked @115 °C for 40 sec on a hotplate