Standard Oxide Recipe - STS PECVD 3

February, 2 2016

Equipment

Equipment STS PECVD 3
Manufacture Plasma-Therm

Model unknown Platen size 6 in

Recipe

Recipe Name

Gas SiH₄ 8 sccm

N₂O 1440 sccm

 N_2 391 sccm

Platen Power 25 W

RF Frequency 13.56 Mhz
Chamber Pressure 650 mTorr
Platen Temperature 300 °C

Results ^a

Deposition Rate 359 Å/min b Uniformity 0.4 % c Refractive Index 1.4711d

Stress Level -429.7 MPascal ^e

Etch Rate (100:1 BOE) N/A f

- a: All data is updated as the date indicated above
- b: An average value from min deposition
- c: Film thickness variation across a 4" wafer, defined as (max-min)/average
- d: An average value across a 4" wafer
- e: Measured with optical stress measurement tool
- f: An average value from min etch