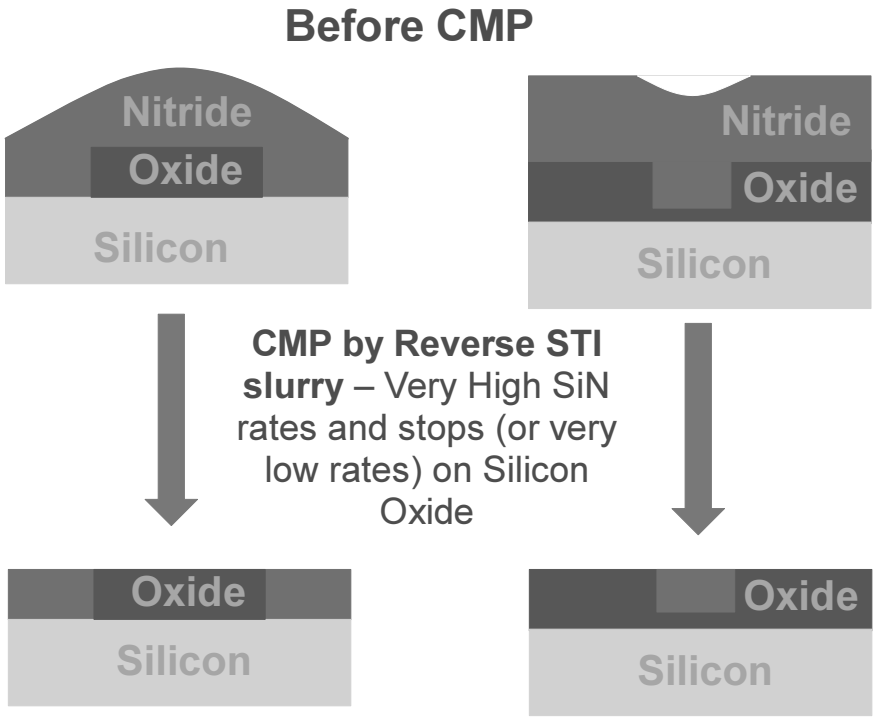


Applications requiring the present Reverse STI slurry – High SiN rates & very low Silicon Oxide rates

Figure 1

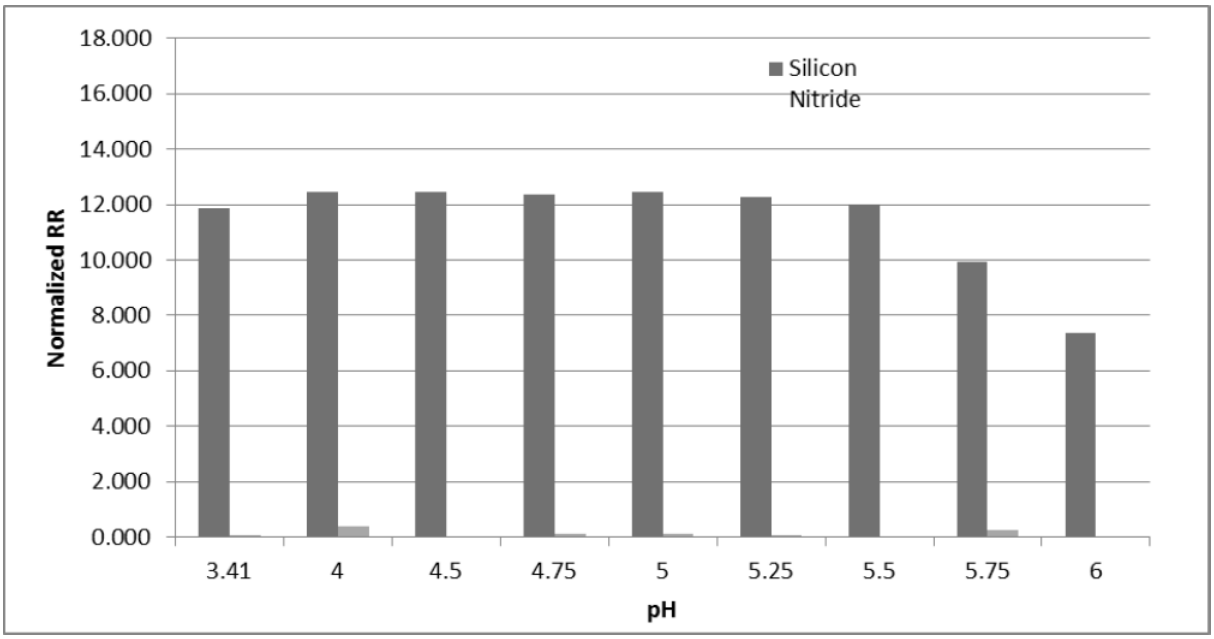

18.000
16.000
14.000
12.000
10.000
8.000
6.000
4.000
2.000
0.000
Normalized RR
Silicon Nitride
3.41
4
4.5
4.75
5
5.25
5.5
5.75
6
pH

Figure 2

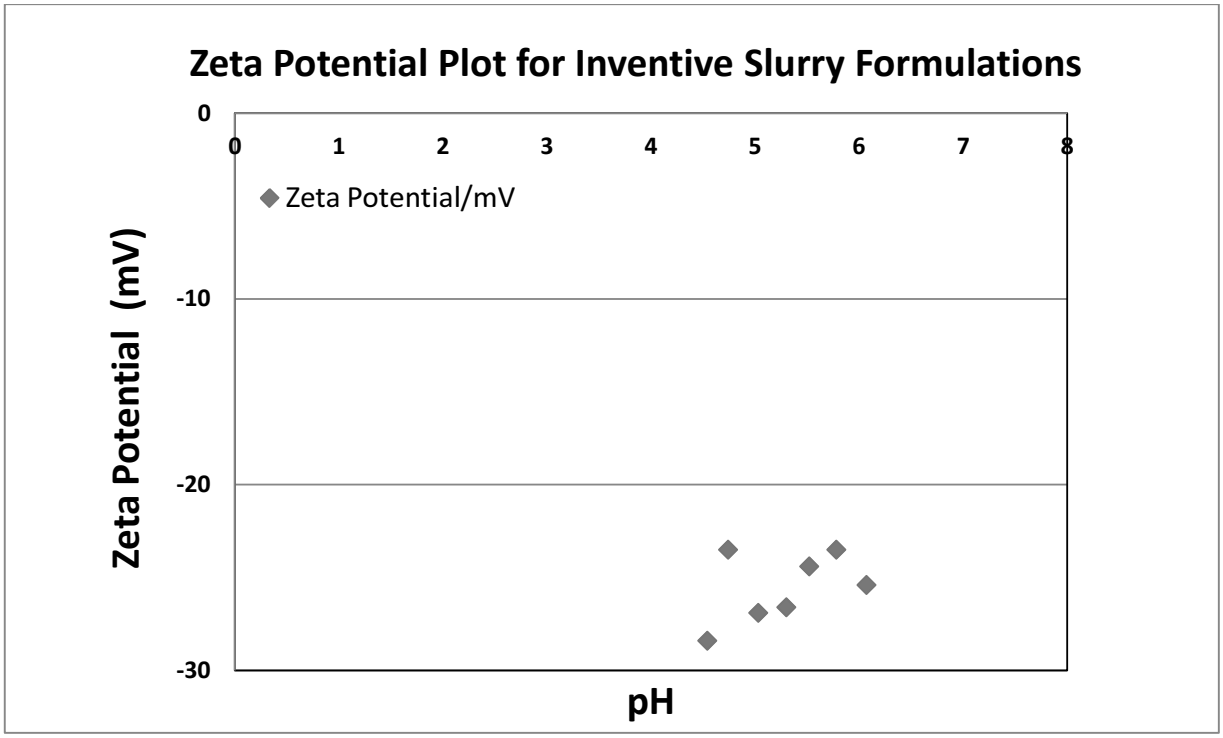

Zeta Potential Plot for Inventive Slurry Formulations
0
-10
-20
-30
0
1
2
3
4
5
6
7
8
Zeta Potential/mV
Zeta Potential (mV)
pH

Figure 3

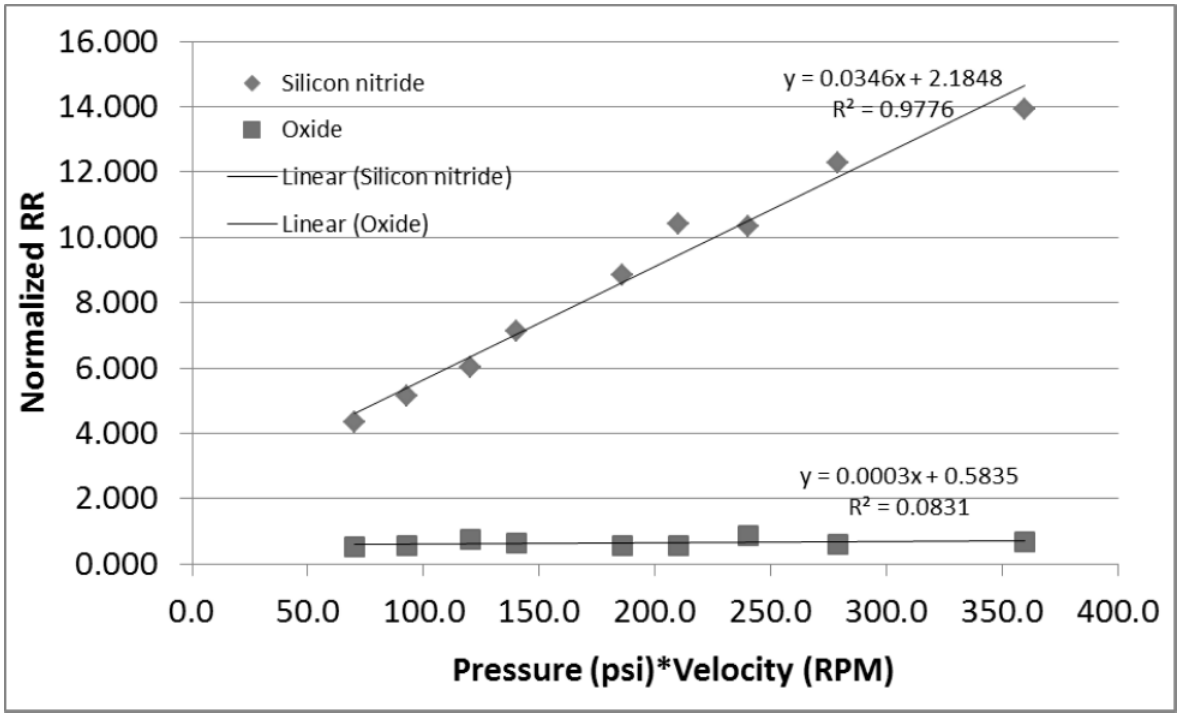

16.000
14.000
12.000
10.000
8.000
6.000
4.000
2.000
0.000
Normalized RR
Silicon nitride
Oxide
Linear (Silicon nitride)
Linear (Oxide)
y = 0.0346x + 2.1848
R² = 0.9776
y = 0.0003x + 0.5835
R² = 0.0831
0.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
Pressure (psi)*Velocity (RPM)

Figure 4