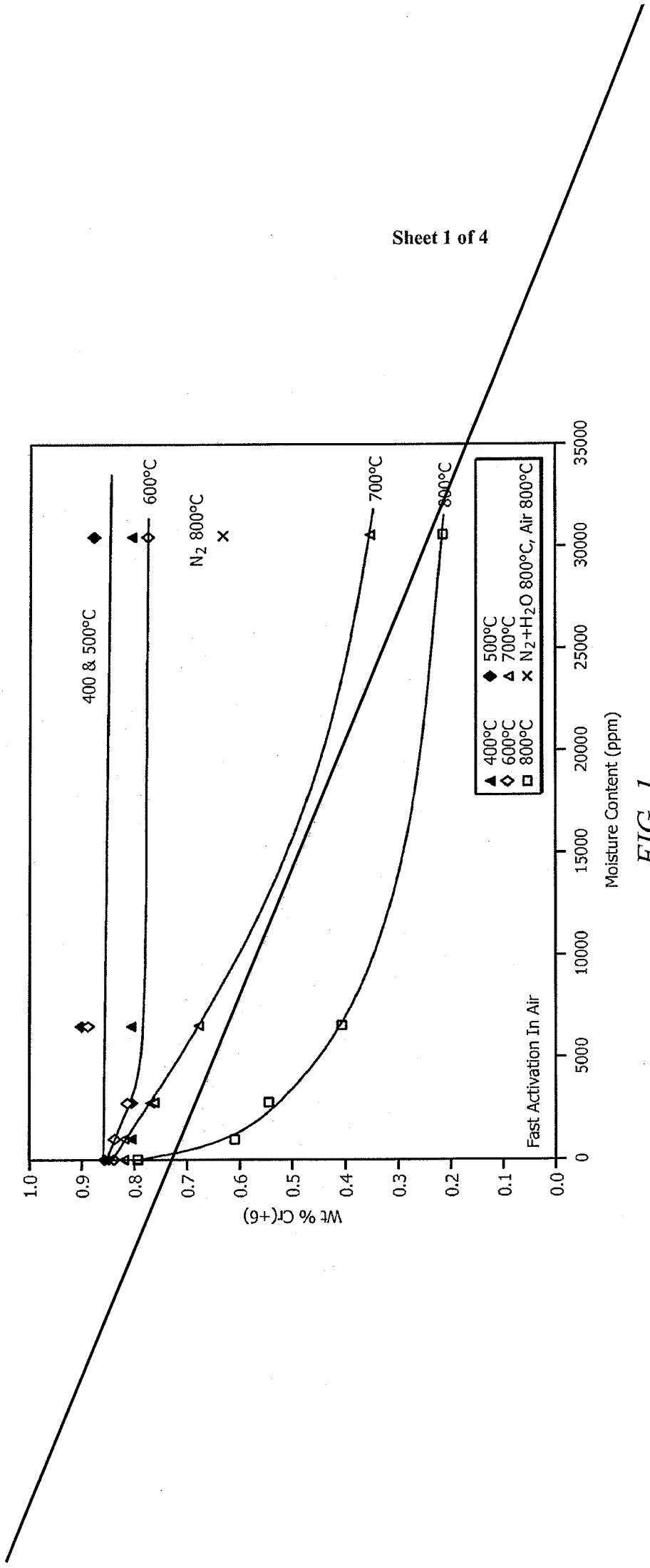
Wt % Cr(+6)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
5000
10000
15000
20000
25000
30000
35000
Moisture Content (ppm)
400 & 500°C
600°C
N2 800°C
700°C
800°C
400°C
500°C
600°C
700°C
800°C
N2+H2O 800°C, Air 800°C
Fast Activation In Air

FIG. 1

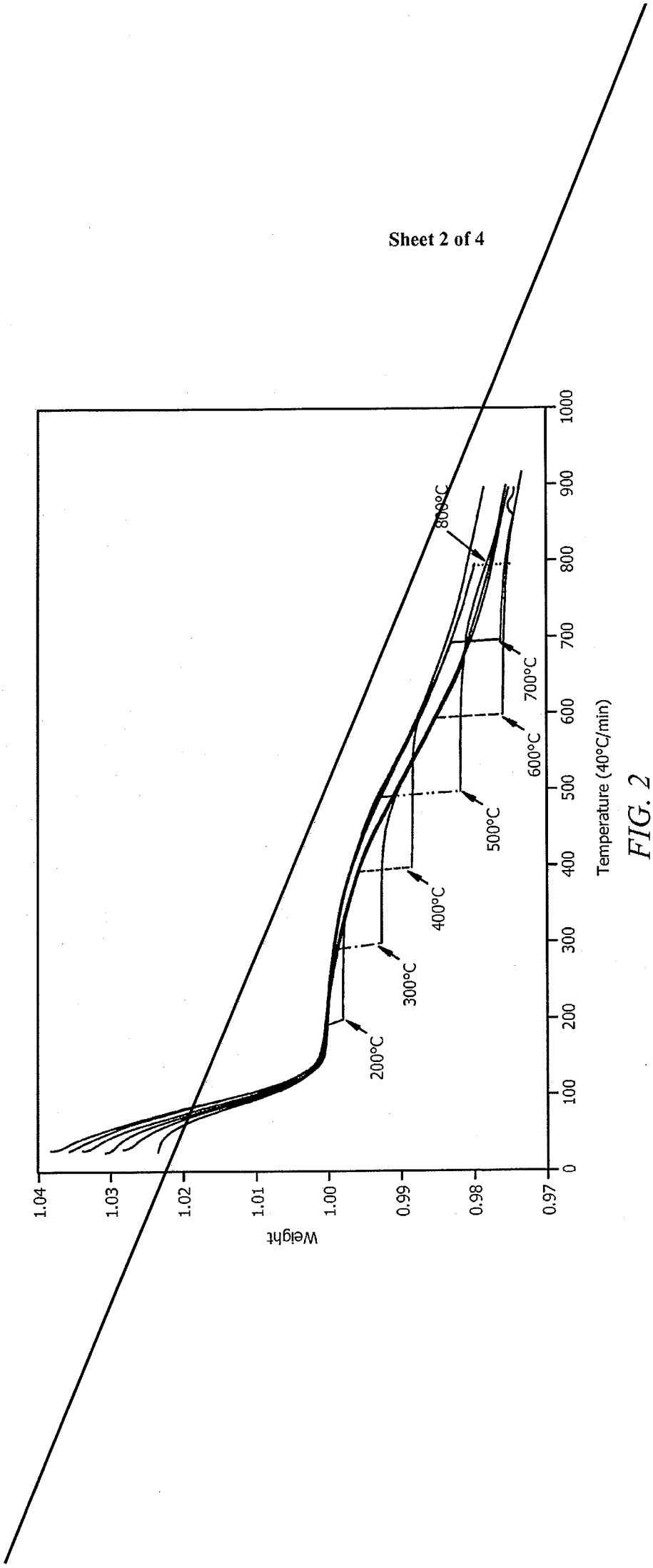
Weight
1.04
1.03
1.02
1.01
1.00
0.99
0.98
0.97
Temperature (40°C/min)
0
100
200
300
400
500
600
700
800
900
1000
200°C
300°C
400°C
500°C
600°C
700°C
800°C

FIG. 2

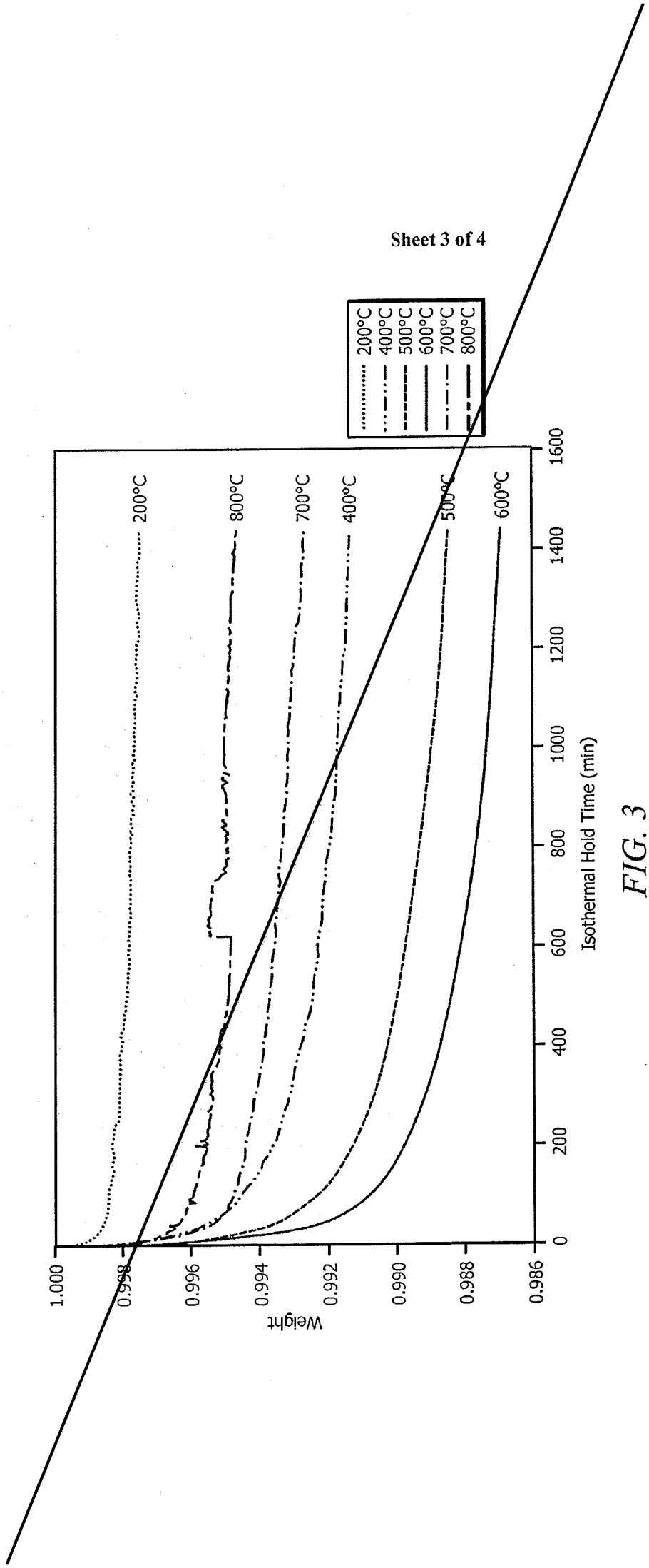
200°C
400°C
500°C
600°C
700°C
800°C
Weight
1.000
0.998
0.996
0.994
0.992
0.990
0.988
0.986
Isothermal Hold Time (min)
0
200
400
600
800
1000
1200
1400
1600

FIG. 3

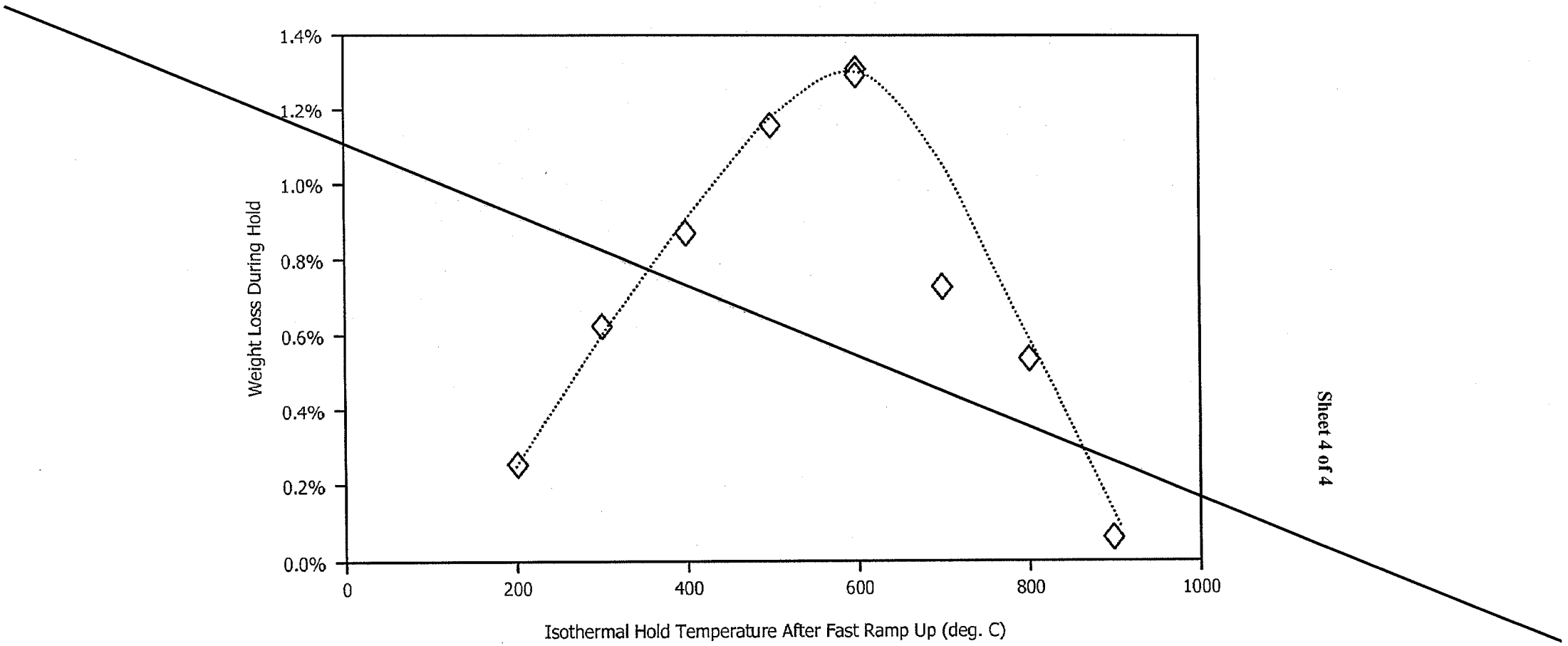
1.4%
1.2%
1.0%
0.8%
0.6%
0.4%
0.2%
0.0%
Weight Loss During Hold
0
200
400
600
800
1000
Isothermal Hold Temperature After Fast Ramp Up (deg. C)

FIG. 4

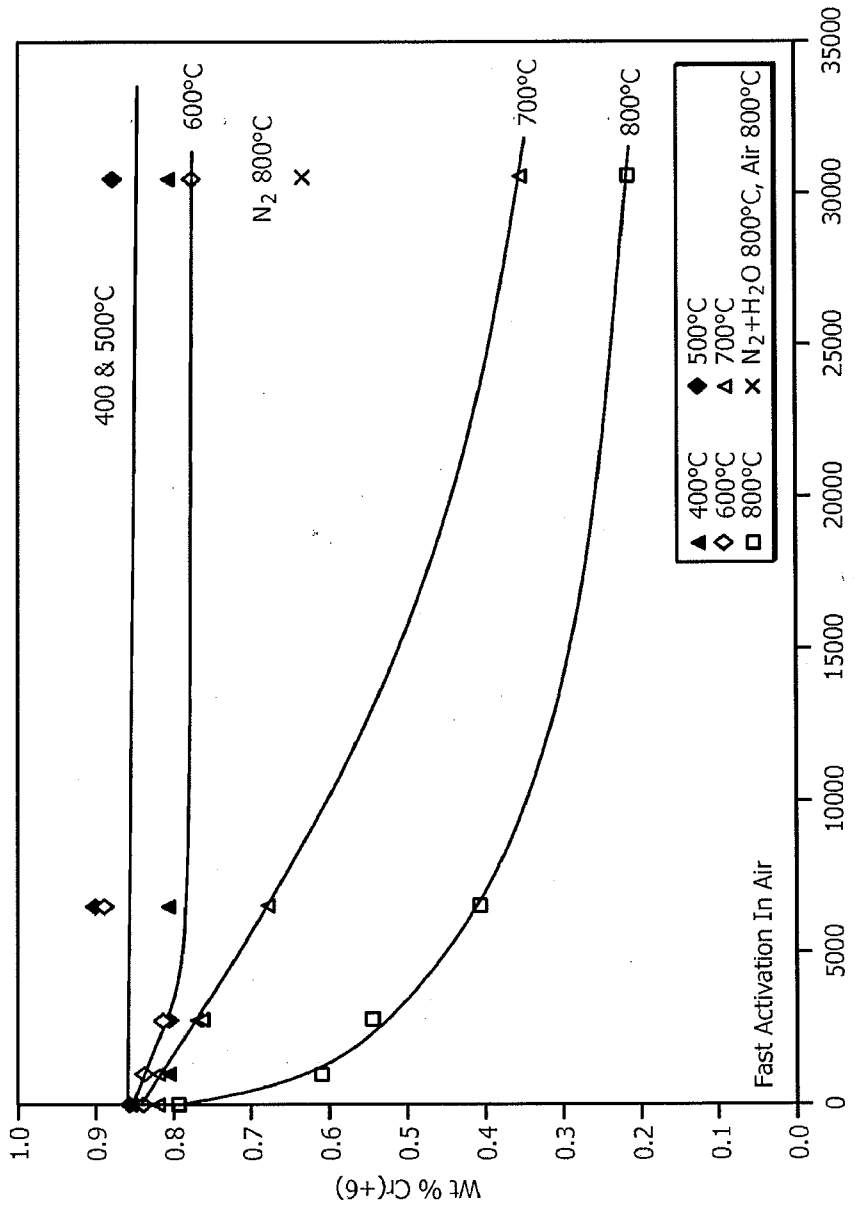
Wt % Cr(+6)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0
5000
10000
15000
20000
25000
30000
35000
Moisture Content (ppm)
Fast Activation In Air
400 & 500°C
600°C
N_2 800°C
700°C
800°C
400°C
500°C
600°C
700°C
800°C
N_2+H_2O 800°C, Air 800°C

FIG. 1

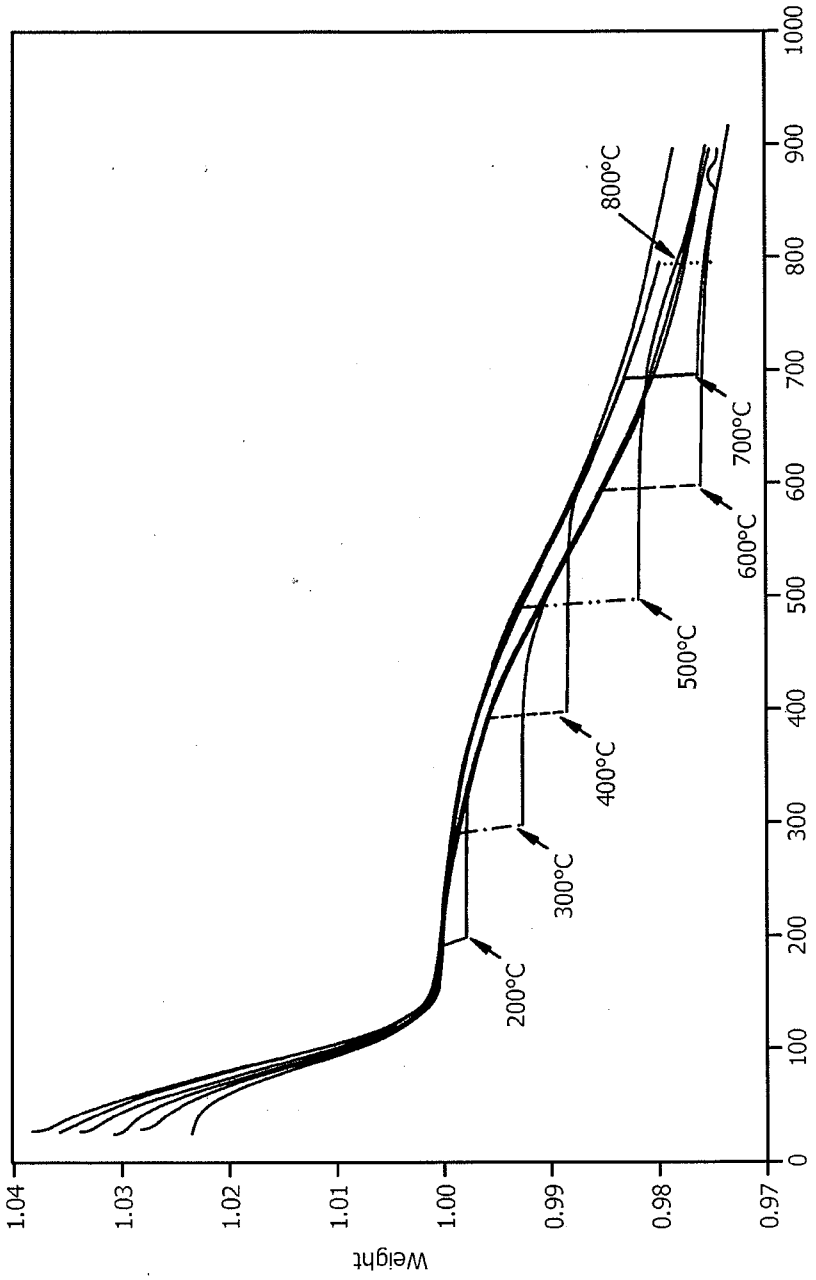
Weight
1.04
1.03
1.02
1.01
1.00
0.99
0.98
0.97
Temperature (40°C/min)
0
100
200
300
400
500
600
700
800
900
1000
200°C
300°C
400°C
500°C
600°C
700°C
800°C

FIG. 2

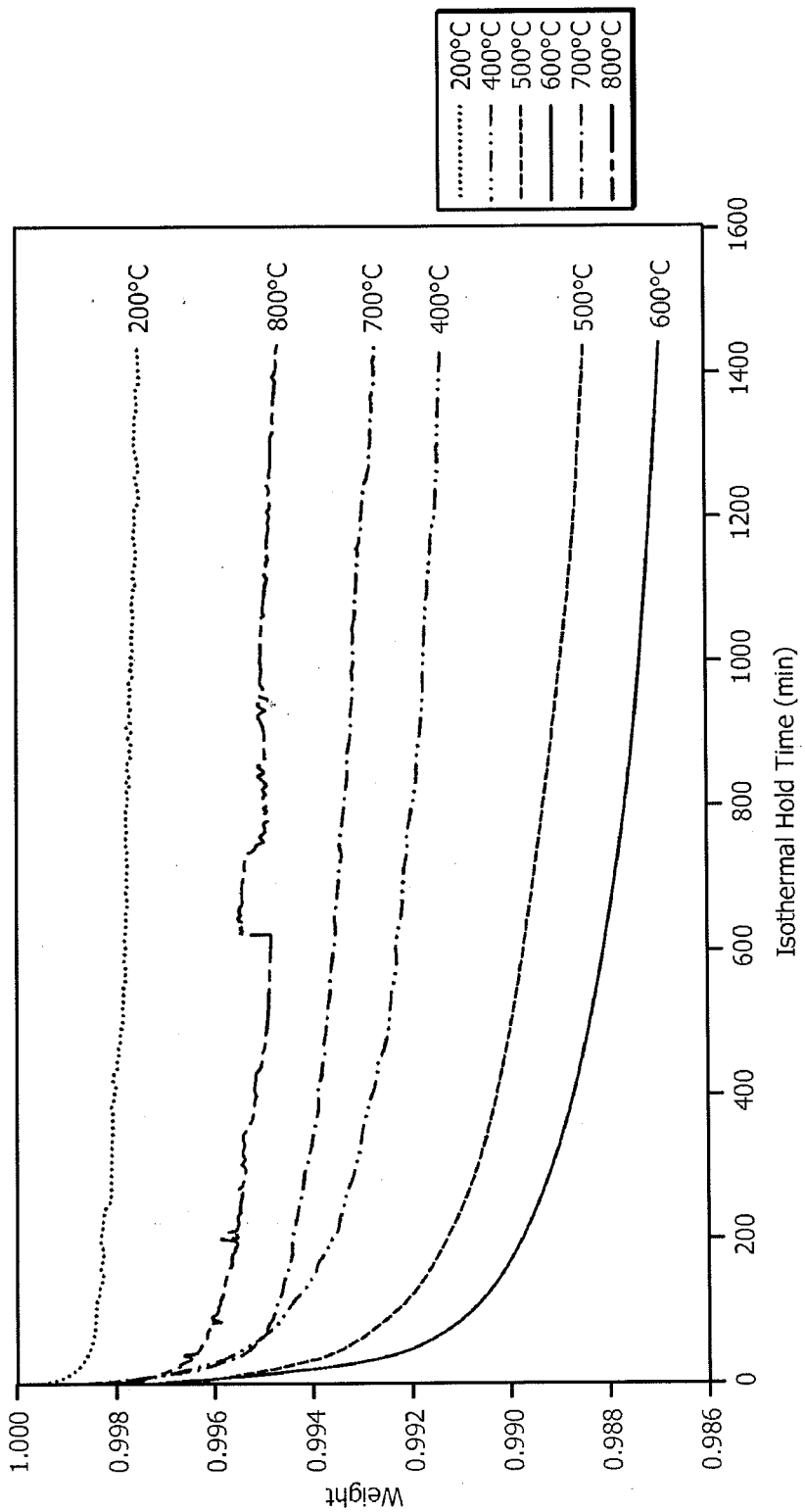
200°C
400°C
500°C
600°C
700°C
800°C
1.000
0.998
0.996
0.994
0.992
0.990
0.988
0.986
Weight
0
200
400
600
800
1000
1200
1400
1600
Isothermal Hold Time (min)

FIG. 3

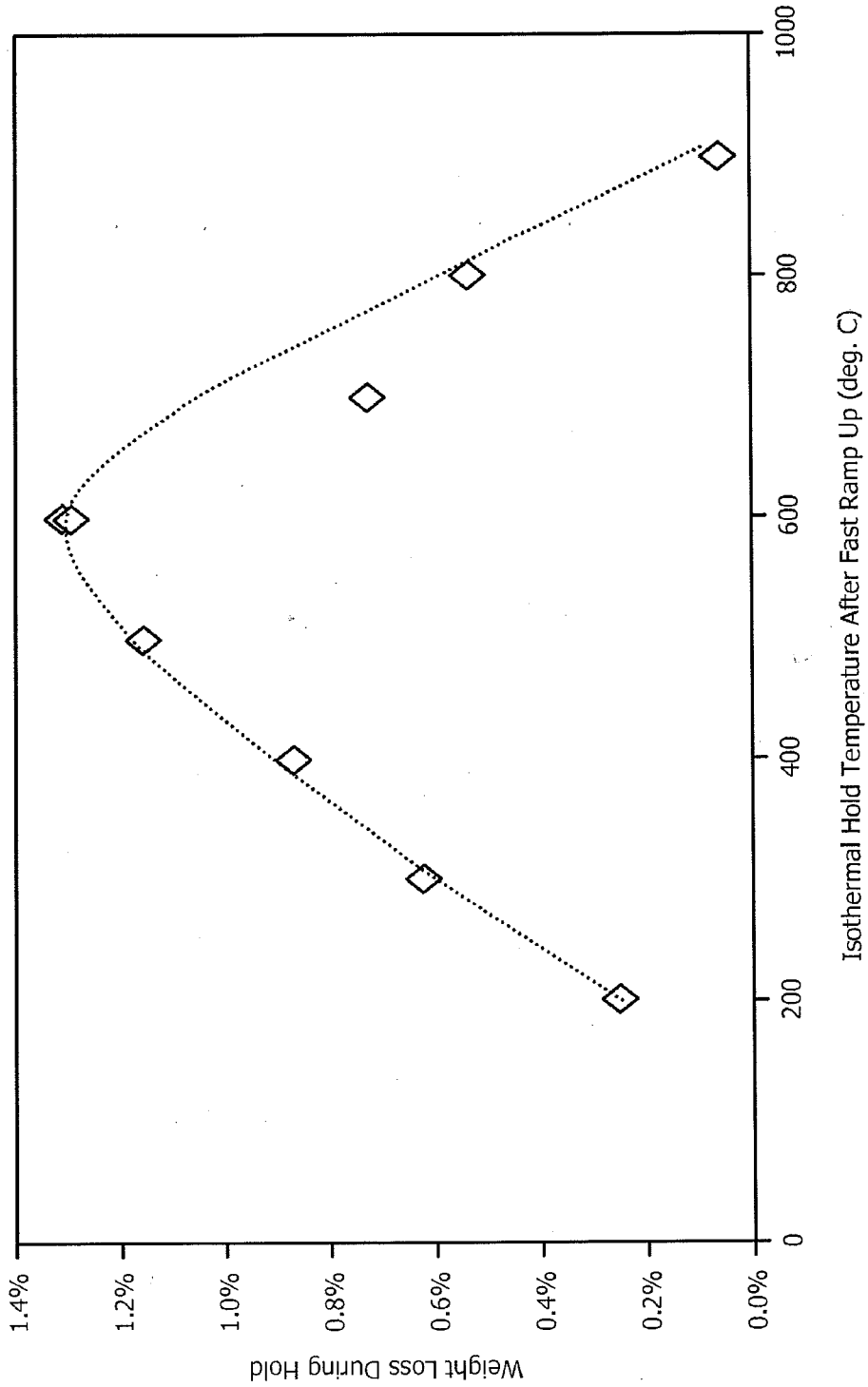
Weight Loss During Hold
1.4%
1.2%
1.0%
0.8%
0.6%
0.4%
0.2%
0.0%
0
200
400
600
800
1000
Isothermal Hold Temperature After Fast Ramp Up (deg. C)

FIG. 4