Manufacturer and Type: AMW K1000
Effective Dates: NAR Certification: 4/1/04
Certified Total Impulse (N-Sec): 2120 Delay Times: Plugged
Propellant Type: Skidmark Propellant Mass (GM): 1297
Casing Diameter (MM): 54 Casing Length (MM): 728

- - - - - - - - - - - - - - - - - - - STATIC TEST DATA - - - - - - - - - - - - - - - - - - -
Number Tested: 3 Casing Date Codes: None
Date Tested: 3/27/04 Test Temp (°c): 17 Elevation (FT): 200
Total Impulse (N-Sec): 2077.51 std. deviation: 41.64
Peak Thrust (Newtons): 1426.12 std. deviation: 136.23
Burn Time (Seconds): 2.18 std. deviation: 0.41
Casing Burnt Mass (GM): 1234.6 Max Casing External Temp (°c): under 200

<table>
<thead>
<tr>
<th>Delay Time (sec)</th>
<th>Plugged</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Mass (gm)</td>
<td>2556.0</td>
</tr>
<tr>
<td>Avg. Measured Delay</td>
<td>None</td>
</tr>
</tbody>
</table>

Remarks:
Uses the 54-2550 motor case and produces about 10 to 15 sec of smoke

Typical Thrust - Time Curve:
The total impulse, peak thrust, average thrust and burn time are the same as the averaged static test data on the NAR web site in the certification file. The curve drawn with these data points is as close to the certification curve as can be with such a limited number of points (32) allowed with wRASP up to v1.6.

```
K1000   54  728   P  1.297  2.5560   AMW
0.019  1155.063
0.045  1426.120
0.094  1248.230
0.161  1112.988
0.239  1128.015
0.343  1113.990
0.377  1149.053
0.440  1121.003
0.544  1221.182
0.633  1178.105
0.674  1221.182
0.737  1193.131
0.883  1200.144
1.009  1194.133
1.057  1236.208
1.188  1137.031
1.299  1145.045
1.396  1087.943
1.516  954.104
1.631  855.228
1.717  827.077
1.777  650.061
1.848  465.932
1.930  303.141
2.023  147.463
2.083  83.879
2.132  41.484
2.180  0.000
```