

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH G80

Effective Dates: NAR Certification: Continuing Contest Use: Continuing

Certified Total Impulse (N-sec): 120.00 Delay Times: 4, 7, 10

Propellant Type: Composite Propellant Mass (gm): 57.4

Casing Diameter (mm): 29 Casing Length (mm): 124

----- STATIC TEST DATA -----

Number Tested: 6 Casing Date Codes: 5D4BD
Date Tested: 9/2/95 Test Temp (°c): 24 Elevation (ft): 200
Total Impulse (N-sec): 116.25 std. deviation: 2.15
Peak Thrust (newtons): 105.18 std. deviation: 4.01
Burn Time (seconds): 1.50 std. deviation: 0.04
Casing Burnt Mass (gm): 43.5 Max Casing External Temp (°c): under 200

| | | | |
|---------------------|-------|-------|-------|
| Delay Time (sec) | 4 | 7 | 10 |
| Initial Mass (gm) | 104.9 | 106.6 | 103.2 |
| Avg. Measured Delay | 4.15 | 7.13 | 9.10 |

Remarks:

Typical Thrust - Time Curve:

