

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH E27 RELOADABLE

Effective Dates: NAR Certification: DEC 23, 1993 Contest Use: Mar 23, 1994

Certified Total Impulse (N-Sec): 23.00 Delay Times: 3

Propellant Type: Composite Propellant Mass (GM): 10.1

Casing Diameter (MM): 18 Casing Length (MM): 70

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

Number Tested: 14 Casing Date Codes: None

Date Tested: Various Test Temp (°c): 20 Elevation (FT): 50

Total Impulse (N-Sec): 21.52 std. deviation: 0.81

Peak Thrust (Newtons): 33.13 std. deviation: 2.83

Burn Time (Seconds): 1.00 std. deviation: 0.05

Casing Burnt Mass (GM): 18.1 Max Casing External Temp (°c): under 200

|                     |      |
|---------------------|------|
| Delay Time (sec)    | 3    |
| Initial Mass (gm)   | 31.1 |
| Avg. Measured Delay | 2.56 |

Remarks:

Typical Thrust - Time Curve:

