

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH E11 RELOADABLE

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

Certified Total Impulse (N-sec): 35.00 Delay Times: 4

Propellant Type: Composite Propellant Mass (gm): 25.0

Casing Diameter (mm): 24 Casing Length (mm): 70

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

Number Tested: 10 Casing Date Codes: None

Date Tested: Aug 13, 1992 Test Temp (°c): 16 Elevation (ft): 200

Total Impulse (N-sec): 32.74 std. deviation: 1.04

Peak Thrust (newtons): 19.85 std. deviation: 0.95

Burn Time (seconds): 2.83 std. deviation: 0.18

Casing Burnt Mass (gm): 32.9 Max Casing External Temp (°c): under 200

Delay Time (sec)	4
Initial Mass (gm)	62.4
Avg. Measured Delay	4.25

Remarks: Uses AEROTECH RMS-24/40 Reload System and AEROTECH E11 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

