

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH E28 RELOADABLE

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

Certified Total Impulse (N-sec): 40.00 Delay Times: 2, 5, 8

Propellant Type: Composite Propellant Mass (gm): 18.4

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

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

Number Tested: 10 Casing Date Codes: None

Date Tested: Aug 30, 1992 Test Temp (°C): 22 Elevation (ft): 200

Total Impulse (N-sec): 39.69 std. deviation: 0.27

Peak Thrust (newtons): 50.52 std. deviation: 4.70

Burn Time (seconds): 1.22 std. deviation: 0.03

Casing Burnt Mass (gm): 30.6 Max Casing External Temp (°C): under 200

Delay Time (SEC)	2	5	8
Initial Mass (GM)	54.0	54.4	55.3
Avg. Measured Delay	2.03	4.87	7.48

Remarks: Uses AEROTECH RMS-24/40 Reload System and AEROTECH E28 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

