

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH D7T-RC RELOADABLE

Effective Dates: NAR Certification: Aug 28, 1994 Contest Use: Nov 26, 1994

Certified Total Impulse (N-sec): 19.8 Delay Times: None

Propellant Type: Composite Propellant Mass (gm): 10.5

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

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

Number Tested: 10 Casing Date Codes: None

Date Tested: Aug 27, 1994 Test Temp (°c): 20 Elevation (ft): 100

Total Impulse (N-sec): 18.53 std. deviation: 0.16

Peak Thrust (newtons): 10.99 std. deviation: 0.34

Burn Time (seconds): 2.87 std. deviation: 0.08

Casing Burnt Mass (gm): 30.4 Max Casing External Temp (°c): under 200

| | |
|---------------------|------|
| Delay Time (sec) | None |
| Initial Mass (gm) | 42.2 |
| Avg. Measured Delay | None |

Remarks: Uses AEROTECH RMS-RC 24/20-40 Reload System and AEROTECH D7T-RC Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

