

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH C6 RELOADABLE

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

Certified Total Impulse (N-sec): 10.00 Delay Times: 3, 7

Propellant Type: Composite Propellant Mass (gm): 4.9

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

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

Number Tested: 10 Casing Date Codes: None

Date Tested: July 11, 1993 Test Temp (°C): 22 Elevation (ft): 200

Total Impulse (N-sec): 9.64 std. deviation: 0.35

Peak Thrust (newtons): 11.78 std. deviation: 0.94

Burn Time (seconds): 1.61 std. deviation: 0.07

Casing Burnt Mass (gm): 18.0 Max Casing External Temp (°C): under 200

Delay Time (sec)	3	7
Initial Mass (gm)	27.2	27.6
Avg. Measured Delay	2.37	6.29

Remarks: Uses AEROTECH RMS-18/20 Reload System and AEROTECH C6 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

