

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH C12 RELOADABLE

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

Certified Total Impulse (N-sec): 10.00 Delay Times: 2, 5, 7

Propellant Type: Composite Propellant Mass (gm): 4.4

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

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

Number Tested: 10 Casing Date Codes: None

Date Tested: Aug 30, 1992 Test Temp (°c): 21 Elevation (ft): 200

Total Impulse (N-sec): 10.00 std. deviation: 0.59

Peak Thrust (newtons): 20.61 std. deviation: 3.51

Burn Time (seconds): 0.93 std. deviation: 0.12

Casing Burnt Mass (gm): 17.8 Max Casing External Temp (°c): under 200

Delay Time (sec)	2	5	7
Initial Mass (gm)	25.8	27.0	27.5
Avg. Measured Delay	2.39	4.51	6.80

Remarks: Uses AEROTECH RMS-18/20 Reload System and AEROTECH C12 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

