

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH F40 RELOADABLE

Effective Dates: NAR Certification: Aug 5, 1993 Contest Use: Nov 1, 1993

Certified Total Impulse (N-sec): 80.00 Delay Times: 4, 7, 10

Propellant Type: Composite Propellant Mass (gm): 40.0

Casing Diameter (mm): 29 Casing Length (mm): 124

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

Number Tested: 10 Casing Date Codes: None

Date Tested: June 13, 1993 Test Temp (°c): 24 Elevation (ft): 100

Total Impulse (N-sec): 78.09 std. deviation: 1.42

Peak Thrust (newtons): 68.07 std. deviation: 4.77

Burn Time (seconds): 2.06 std. deviation: 0.07

Casing Burnt Mass (gm): 78.4 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	7	10
Initial Mass (gm)	125.6	126.1	126.2
Avg. Measured Delay	3.21	6.74	8.97

Remarks: Uses AEROTECH RMS-29/40-120 Reload System and AEROTECH F40 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

