

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH F37

Effective Dates: NAR Certification: July 6, 1997 Contest Use: Sept 4, 1997

Certified Total Impulse (N-sec): 50.00 Delay Times: 6, 10, 14

Propellant Type: Composite Propellant Mass (gm): 28.2

Casing Diameter (mm): 29 Casing Length (mm): 99

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

Number Tested: 11 Casing Date Codes:

Date Tested: July 5, 1997 Test Temp (°c): Elevation (ft): 200

Total Impulse (N-sec): 50.67 std. deviation: 2.05

Peak Thrust (newtons): 46.47 std. deviation: 1.71

Burn Time (seconds): 1.60 std. deviation: 0.10

Casing Burnt Mass (gm): 73.9 Max Casing External Temp (°c): under 200

Delay Time (sec)	6	10	14
Initial Mass (gm)	108.4	109.3	108.2
Avg. Measured Delay	5.13	9.93	12.43

Remarks: Uses AEROTECH RMS-29/60 Reload System and AEROTECH F37 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:

