

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH F39-T RELOADABLE

Effective Dates: NAR Certification: April 10, 1994 Contest Use: July 9, 1994

Certified Total Impulse (N-Sec): 50.00 Delay Times: 3, 6, 9

Propellant Type: Composite Propellant Mass (GM): 22.7

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

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

Number Tested: 11 Casing Date Codes: None

Date Tested: April 9, 1994 Test Temp (°c): Elevation (FT):

Total Impulse (N-Sec): 49.66 std. deviation: 0.49

Peak Thrust (Newtons): 59.47 std. deviation: 5.29

Burn Time (Seconds): 1.33 std. deviation: 0.05

Casing Burnt Mass (GM): 30.3 Max Casing External Temp (°c): under 200

Delay Time (sec)	3	6	9
Initial Mass (gm)	59.3	60.0	60.6
Avg. Measured Delay	3.17	6.27	9.56

Remarks: Uses AEROTECH RMS-24/40 Reload System and AEROTECH F39 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

