

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH F12-J RELOADABLE

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

Certified Total Impulse (N-sec): 45.00 Delay Times: 2

Propellant Type: Composite Propellant Mass (gm): 30.3

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): 18 Elevation (ft): 200

Total Impulse (N-sec): 43.20 std. deviation: 1.14

Peak Thrust (newtons): 23.54 std. deviation: 1.32

Burn Time (seconds): 2.93 std. deviation: 0.13

Casing Burnt Mass (gm): 33.3 Max Casing External Temp (°C): under 200

Delay Time (sec)	2
Initial Mass (gm)	68.6
Avg. Measured Delay	1.33

Remarks: Uses AEROTECH RMS-24/40 Reload System and AEROTECH F12 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

