

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH E16 RELOADABLE

Effective Dates: NAR Certification: Feb 28, 1994 Contest Use: May 29, 1994

Certified Total Impulse (N-sec): 40.00 Delay Times: 4, 7, 10

Propellant Type: Composite Propellant Mass (gm): 19

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

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

Number Tested: 9 Casing Date Codes: NONE
Date Tested: Feb 27, 1994 Test Temp (°c): 21 Elevation (ft): 50
Total Impulse (N-sec): 37.67 std. deviation: 0.85
Peak Thrust (newtons): 37.20 std. deviation: 1.91
Burn Time (seconds): 2.00 std. deviation: 0.09
Casing Burnt Mass (gm): 80.4 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	7	10
Initial Mass (gm)	107.8	109.0	108.9
Avg. Measured Delay	3.86	6.55	10.90

Remarks: Uses AEROTECH RMS 29/40-120 Reload System and AEROTECH E16 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:

