

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH G64 RELOADABLE

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

Certified Total Impulse (N-sec): 120.00 Delay Times: 4, 8, 10

Propellant Type: Composite Propellant Mass (gm): 62.5

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

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

Number Tested: 10 Casing Date Codes: None
Date Tested: Feb 27, 1994 Test Temp (°c): 21 Elevation (ft): 50
Total Impulse (N-sec): 118.80 std. deviation: 2.50
Peak Thrust (newtons): 98.31 std. deviation: 8.45
Burn Time (seconds): 2.09 std. deviation: 0.14
Casing Burnt Mass (gm): 83.4 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	8	10
Initial Mass (gm)	151.0	151.4	151.3
Avg. Measured Delay	4.04	8.39	11.08

68

Remarks: Uses AEROTECH RMS 29/40-120 Reload System and AEROTECH G64 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:

