

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH G77R

Effective Dates: NAR Certification: 7/29/06

Certified Total Impulse (N-sec): 102.86

Delay Times: 4, 7, 10

Propellant Type: Composite

Propellant Mass (gm): 59.1

Casing Diameter (mm): 29mm

Casing Length (mm): 124

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

Date Tested: 6/2/06 Test Temp (°C): 24 Elevation (ft): 5850

Number Tested: 10 Casing Date Codes:

Total Impulse (N-sec): 102.86 Std. deviation: 0.21

Peak Thrust (newtons): 100.5 Std. deviation: 6.42

Burn Time (seconds): 1.28 Std. deviation: 0.02

Average Thrust (newtons): 80.12

Casing Burnt Mass (gm): 59

Max Casing External Temp (°C): Acceptable

Delay Time (sec)	4	7	10
Initial Mass (gm)	122.0		123.0
Avg. Measured Delay	3.70	7.43	10.05

Remarks: Data taken at 5850 feet ASL and corrected to sea level.

Typical Thrust - Time Curve:

