

NAR OFFICIAL CERTIFICATION LABORATORY

HIGH POWER ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH I300 RELOADABLE

Effective Dates: NAR Certification: May 6, 1996

Certified Total Impulse (N-Sec): 440 Delay Times: 6, 10, 14

Propellant Type: Composite Propellant Mass (gm): 221.6

Casing Diameter (mm): 38 Casing Length (mm): 250

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

Number Tested: 9 Casing Date Codes: None

Date Tested: May 5, 1996 Test Temp (°C): 20 Elevation (ft): 200

Total Impulse (N-Sec): 426.51 std. deviation: 2.41

Peak Thrust (newtons): 474.43 std. deviation: 21.08

Burn Time (seconds): 1.42 std. deviation: 0.02

Casing Burnt Mass (gm): 214.1 Max Casing External Temp (°C): under 200

Delay Time (sec)	6	10	14
Initial Mass (gm)	442.7	444.6	446.2
Avg. Measured Delay	6.68	10.76	14.41

Remarks: Uses AEROTECH RMS-38/440 Reload System and AEROTECH I300 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:

