

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: Aerotech I218R

Effective Dates: NAR Certification: 5/7/01

Contest Use: TBA

Certified Total Impulse (N-Sec): 330.00

Initial Mass (GM): 359.3

Propellant Type: Composite

Propellant Mass (GM): 172.7

Casing Diameter (MM): 38

Casing Length (MM): 203

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

Number Tested: 9

Casing Date Codes:

Date Tested: 5/6/01

Test Temp (°c): 22

Elevation (FT): 500

Total Impulse (N-Sec): 319.63

std. deviation: 0.93

Peak Thrust (Newtons): 289.04

std. deviation: 5.08

Burn Time (Seconds): 1.41

std. deviation: 0.02

Casing Burnt Mass (GM): 177.7

Max Casing External Temp (°c): under 200

Remarks: This reload uses the RMS-38/360 case and REDLINE propellant

Typical Thrust - Time Curve:

