

AEROTECH F22

CERTIFIED VALUES

Total Impulse: 65 newton-seconds
Delays: 4, 7 seconds

Propellant Type: Composite
Propellant Mass: 46.3 grams

Casing Dimensions: 29 mm × 124 mm

Certification Date: 93-December-23
Contest Use Date: 94-March-23

Certification Type: Model Rocket

STATIC TEST DATA

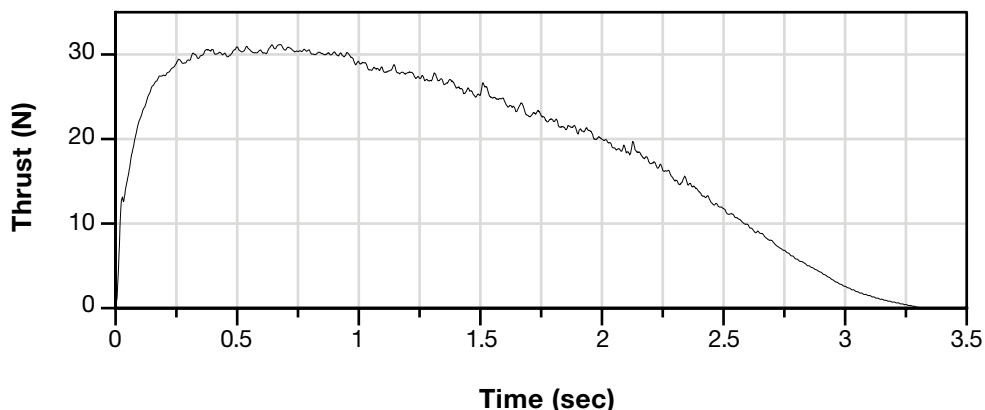
Date Tested: 92-July-18

Total Impulse: 65.00 newton-seconds (σ 1.03)
Peak Thrust: 31.15 newtons (σ 1.73)
Burn Time: 3.31 seconds (σ 0.23)
Average Thrust: 19.64 newtons

Mass After Firing: 83.3 grams

| Delay Time | Average Measured Delay | Initial Mass | Mfg Recommended Max Liftoff Weight |
|------------|------------------------|--------------|------------------------------------|
| 4 | 3.59 | 135.6 g | 511 g |
| 7 | 7.37 | 132.9 g | |

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-29/40-120 Reload System and AeroTech F22 Reload Kit. No substitutions allowed.



; Aerotech F22 RASP.ENG file made from NAR published data
; File produced July 4, 2000
; The total impulse, peak thrust, average thrust and burn time are
; the same as the averaged static test data on the NAR web site in
; the certification file. The curve drawn with these data points is as
; close to the certification curve as can be with such a limited
; number of points (32) allowed with wRASP up to v1.6.

| | | | | | | |
|-------|--------|-----|-----|-------|-------|---|
| F22 | 29 | 125 | 4-7 | .0463 | .1342 | A |
| 0.014 | 11.527 | | | | | |
| 0.075 | 20.126 | | | | | |
| 0.157 | 26.572 | | | | | |
| 0.293 | 29.113 | | | | | |
| 0.382 | 30.278 | | | | | |
| 0.450 | 29.690 | | | | | |
| 0.539 | 30.667 | | | | | |
| 0.614 | 30.089 | | | | | |
| 0.662 | 31.150 | | | | | |
| 0.771 | 30.478 | | | | | |
| 0.948 | 29.890 | | | | | |
| 0.996 | 28.714 | | | | | |
| 1.078 | 28.136 | | | | | |
| 1.187 | 27.738 | | | | | |
| 1.289 | 26.761 | | | | | |
| 1.337 | 26.960 | | | | | |
| 1.412 | 25.984 | | | | | |
| 1.474 | 25.008 | | | | | |
| 1.515 | 26.173 | | | | | |
| 1.542 | 24.808 | | | | | |
| 1.706 | 22.856 | | | | | |
| 1.938 | 20.903 | | | | | |
| 2.101 | 18.173 | | | | | |
| 2.129 | 19.338 | | | | | |
| 2.251 | 16.210 | | | | | |
| 2.402 | 13.480 | | | | | |
| 2.640 | 8.791 | | | | | |
| 2.961 | 3.320 | | | | | |
| 3.310 | 0.000 | | | | | |

