

AEROTECH F24

CERTIFIED VALUES

Total Impulse: 50 newton-seconds
Delays: 4, 7 seconds

Propellant Type: Composite
Propellant Mass: 19.0 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 94-February-28
Contest Use Date: 94-May-29

Certification Type: Model Rocket

STATIC TEST DATA

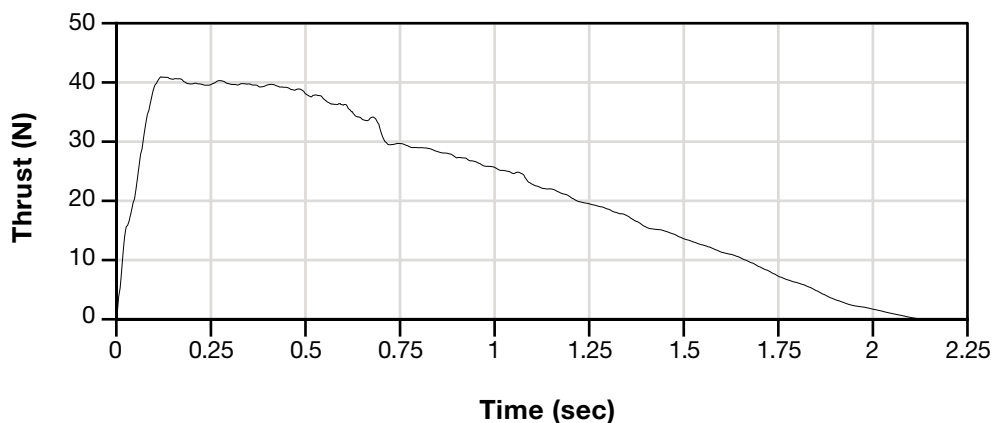
Date Tested: 94-February-27

Total Impulse: 47.31 newton-seconds (σ 0.43)
Peak Thrust: 40.95 newtons (σ 2.98)
Burn Time: 2.13 seconds (σ 0.25)
Average Thrust: 22.21 newtons

Mass After Firing: 34.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	3.71	62.2 g	454 g
7	6.60	62.9 g	269 g

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-24/40 Reload System and AeroTech F24 Reload Kit. No substitutions allowed.



; Aerotech F24 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.

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F24 24 70 4-7 .0190 .0625 A
0.033 15.942
0.112 40.146
0.125 40.950
0.180 40.427
0.245 40.126
0.281 40.417
0.355 39.524
0.438 39.213
0.543 37.727
0.603 36.532
0.658 33.279
0.685 34.163
0.726 29.434
0.772 29.716
0.951 26.453
1.071 24.666
1.107 22.588
1.185 20.811
1.383 16.644
1.649 10.410
1.828 5.369
1.938 2.403
1.988 1.806
2.048 0.912
2.130 0.000
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