

AEROTECH F23

CERTIFIED VALUES

Total Impulse: 56 newton-seconds
Delays: 4, 7 seconds

Propellant Type: Composite
Propellant Mass: 32.0 grams

Casing Dimensions: 29 mm × 73 mm

Certification Date: 99-February-22
Contest Use Date: 99-December-31

Certification Type: Model Rocket

STATIC TEST DATA

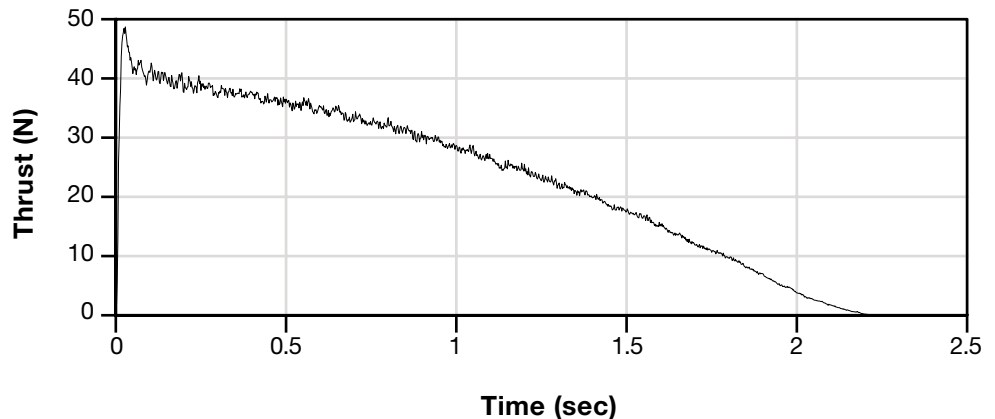
Date Tested: 99-February-21

Total Impulse: 52.85 newton-seconds (σ 0.54)
Peak Thrust: 48.70 newtons (σ 2.91)
Burn Time: 2.22 seconds (σ 0.06)
Average Thrust: 23.81 newtons

Mass After Firing: 30.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.34	78.2 g	
7	7.16	79.0 g	

TYPICAL THRUST-TIME CURVE



REMARKS

; Aerotech F23 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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F23 29 73 4-7 .0320 .0786 A
0.029 48.700
0.049 43.106
0.083 41.409
0.102 42.258
0.132 40.840
0.175 39.422
0.229 38.853
0.268 38.853
0.302 37.436
0.312 38.574
0.361 37.715
0.429 36.587
0.502 36.018
0.560 36.018
0.595 34.601
0.687 33.183
0.770 32.614
0.853 31.196
0.936 29.499
1.038 27.792
1.179 24.388
1.204 25.237
1.248 22.970
1.374 20.984
1.535 16.731
1.691 12.478
1.827 9.075
1.954 5.105
2.071 2.269
2.220 0.000
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