

AEROTECH F20

CERTIFIED VALUES

Total Impulse: 64 newton-seconds
Delays: 4, 7 seconds

Propellant Type: Composite
Propellant Mass: 30.0 grams

Casing Dimensions: 29 mm × 73 mm

Certification Date: 96-November-10
Contest Use Date: 97-March-3

Certification Type: Model Rocket

STATIC TEST DATA

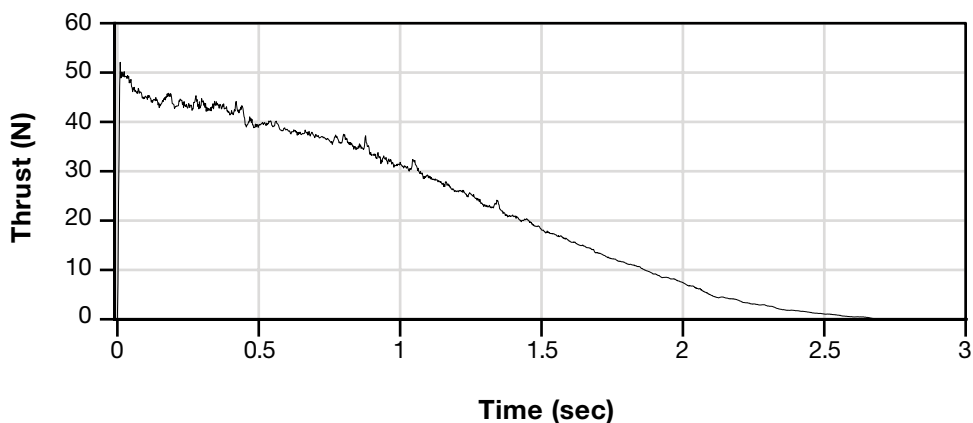
Date Tested: 96-November-9

Total Impulse: 60.45 newton-seconds (σ 0.77)
Peak Thrust: 52.08 newtons (σ 2.99)
Burn Time: 2.68 seconds (σ 0.21)
Average Thrust: 22.56 newtons

Mass After Firing: 30.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.09	74.3 g	
7	6.93	74.9 g	

TYPICAL THRUST-TIME CURVE



REMARKS



; Aerotech F20 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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F20 29 73 4-7 .0300 .0746 A
0.014 52.080
0.032 49.808
0.062 46.979
0.099 45.559
0.153 44.492
0.183 45.549
0.208 43.425
0.244 43.777
0.323 43.767
0.365 44.110
0.444 43.042
0.450 40.576
0.529 39.861
0.620 38.079
0.759 36.296
0.795 37.354
0.844 34.877
0.886 36.991
0.898 33.457
1.031 30.608
1.056 32.017
1.086 29.551
1.225 25.996
1.322 22.452
1.346 23.157
1.364 21.385
1.576 16.421
1.800 11.095
2.012 6.476
2.194 3.627
2.388 1.132
2.680 0.000
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