AEROTECH F40

CERTIFIED VALUES

Total Impulse: 80 newton-seconds
Delays: 4, 7, 10 seconds

Propellant Type: Composite
Propellant Mass: 40.0 grams

Casing Dimensions: 29 mm × 124 mm

Certification Date: 93-August-5
Contest Use Date: 93-November-1

Certification Type: Model Rocket

STATIC TEST DATA

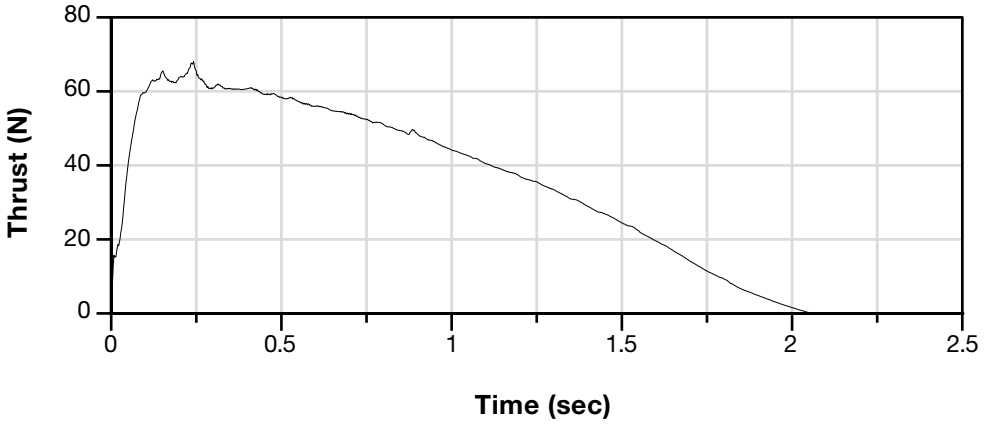
Date Tested: 93-June-13

Total Impulse:	78.09 newton-seconds	(σ 1.42)
Peak Thrust:	68.07 newtons	(σ 4.77)
Burn Time:	2.06 seconds	(σ 0.07)
Average Thrust:	37.91 newtons	

Mass After Firing: 78.4 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	3.21	125.6 g	851 g
7	6.74	126.1 g	539 g
10	8.97	126.2 g	369 g

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-29/40-120 Reload System and AeroTech F40 Reload Kit. No substitutions allowed.

Updated: 8/96

; Aerotech F40 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.
F40 29 124 4-7-10 .0400 .1260 A
0.015 17.776
0.049 41.016
0.089 58.793
0.124 62.900
0.148 65.173
0.183 62.442
0.242 68.070
0.292 60.617
0.321 61.524
0.415 60.617
0.524 58.334
0.741 52.412
0.870 48.314
0.889 49.221
0.914 47.397
1.102 40.109
1.285 33.728
1.492 25.064
1.665 15.952
1.808 8.659
1.942 3.190
2.060 0.000