

AEROTECH E6

CERTIFIED VALUES

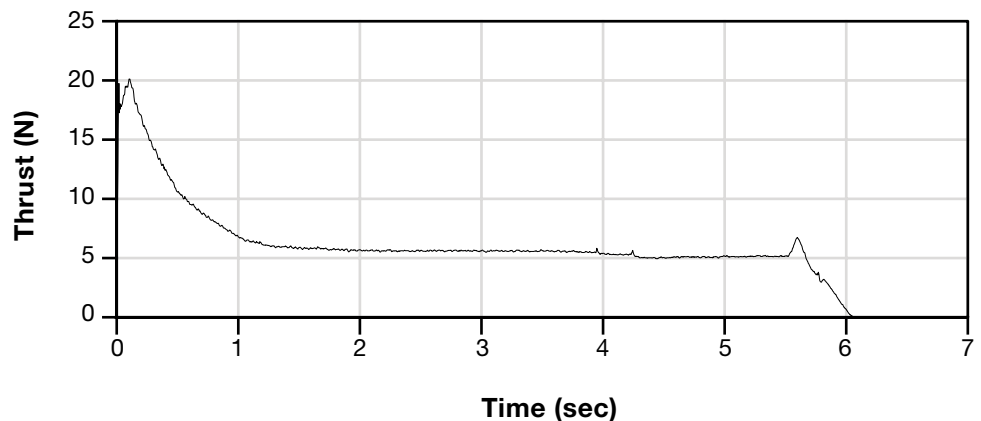
Total Impulse: 40 newton-seconds
Delays: 2, 4, 6, 8, P
Propellant Type: Composite
Propellant Mass: 21.5 grams
Casing Dimensions: 24 mm × 70 mm
Certification Date: Continuing
Contest Use Date: Continuing
Certification Type: Model Rocket

STATIC TEST DATA

Date Tested: 95-June-24
Total Impulse: 38.67 newton-seconds (σ 0.90)
Peak Thrust: 20.12 newtons (σ 1.52)
Burn Time: 6.06 seconds (σ 0.33)
Average Thrust: 6.38 newtons
Mass After Firing: 21.8 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
2	2.16	46.3 g	255 g
4	4.08	46.2 g	175 g
6	5.56	46.3 g	150 g
8	8.09	46.3 g	150 g
P	None	46.3 g	

TYPICAL THRUST-TIME CURVE



REMARKS

The 2 second delay was decertified for general use in July 1998. Data is presented for historical interest.

; Aerotech E6 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.

E6 24 70 2-4-6-8-P .0215 .0463 A
0.056 18.590
0.112 20.120
0.168 17.575
0.307 14.380
0.531 10.450
0.894 7.696
1.146 6.244
1.691 5.808
2.836 5.663
3.898 5.517
4.275 5.227
4.415 4.937
5.058 5.082
5.519 5.227
5.603 6.679
5.729 3.921
5.882 2.323
5.966 1.016
6.060 0.000

