

AEROTECH F10

CERTIFIED VALUES

Total Impulse: 80 newton-seconds
Delays: 2, 4, 6, 8 seconds

Propellant Type: Composite
Propellant Mass: 40.7 grams

Casing Dimensions: 29 mm × 93 mm

Certification Date: Continuing
Contest Use Date: Continuing

Certification Type: Model Rocket

STATIC TEST DATA

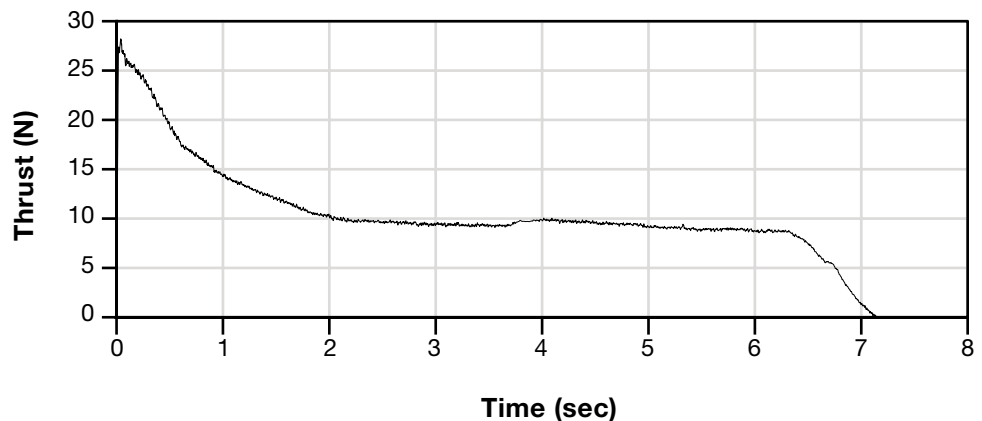
Date Tested: 95-September-3

Total Impulse: 76.33 newton-seconds (σ 1.00)
Peak Thrust: 28.22 newtons (σ 1.33)
Burn Time: 7.13 seconds (σ 0.29)
Average Thrust: 10.71 newtons

Mass After Firing: 37.0 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
2	2.40	84.0 g	340 g
4	4.32	83.5 g	238 g
6	5.42	85.0 g	205 g
8	8.21	84.7 g	170 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 F10 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.

F10	29	93	2-4-6-8	.0407	.0841	A
0.015	28.220					
0.077	26.082					
0.201	24.934					
0.310	22.806					
0.464	20.183					
0.573	17.886					
0.789	16.075					
1.068	13.946					
1.393	12.630					
1.718	11.155					
2.166	9.844					
2.677	9.515					
3.311	9.187					
3.683	8.859					
3.791	9.679					
4.101	9.679					
4.658	9.515					
5.168	9.023					
5.725	9.023					
6.112	8.531					
6.329	8.859					
6.499	7.546					
6.685	5.742					
6.778	4.921					
6.917	2.625					
7.025	1.312					
7.130	0.000					

